

325-MHz observations of the ELAIS-N1 field using the Giant Metrewave Radio Telescope

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ABSTRACT

We present observations of the European Large-Area *ISO* Survey-North 1 (ELAIS-N1) at 325 MHz using the Giant Metrewave Radio Telescope (GMRT), with the ultimate objective of identifying active galactic nuclei and starburst galaxies and examining their evolution with cosmic epoch. After combining the data from two different days we have achieved a median rms noise of $\approx 40 \mu\text{Jy beam}^{-1}$, which is the lowest that has been achieved at this frequency. We detect 1286 sources with a total flux density above $\approx 270 \mu\text{Jy}$. In this paper, we use our deep radio image to examine the spectral indices of these sources by comparing our flux density estimates with those of Garn et al. at 610 MHz with the GMRT, and surveys with the Very Large Array at 1400 MHz. We attempt to identify very steep spectrum sources which are likely to be either relic sources or high-redshift objects as well as inverted-spectra objects which could be Giga-Hertz Peaked Spectrum objects. We present the source counts, and report the possibility of a flattening in the normalized differential counts at low flux densities which has so far been reported at higher radio frequencies.

Key words: catalogues – surveys – radio continuum: galaxies – galaxies: active

1 INTRODUCTION

One of the key questions in extragalactic studies is to understand the evolution of galaxies, namely their star formation history, formation of active galactic nuclei (AGN), building-up of large disks and bulges and the formation and evolution of supermassive black holes over the redshift range from $z \approx 5$ to the present epoch. This is the range where the global star-formation rate has passed through a maximum between a redshift of 1 and 2 (Madau et al. 1996; Madau, Pozzetti & Dickinson 1998; see the recent compilation by Hopkins & Beacom 2006). It is conjectured that merging of galaxies has occurred significantly at these epochs, triggering collapse of molecular clouds and star formation, often in dusty environments. Many of these galaxies may also harbour an AGN and are copious emitters in the infrared region of the spectrum. It has become clear over the last decade that a population of galaxies which radiate most of their power in the infrared constitutes an important and significant component of the Universe (Lagache, Puget & Dole 2005 for a review).

Multiwavelength observations of high-redshift infrared galaxies could provide valuable insights into issues of galaxy formation and evolution. The spectral energy distribution (SED) of the cosmic infrared (IR) background (CIB, which is the emission at wavelengths larger than a few microns) is due to the formation and evolution of both AGN and starburst galaxies (e.g. Puget et al. 1996; Hauser et al. 1998; Lagache et al. 1999; Gispert et al. 2000; Kashlinsky 2005; Dole et al. 2006). The SED of the CIB peaks around $150 \mu\text{m}$, accounting for about half the total energy in the optical/infrared extragalactic background light (cf. Hauser & Dwek 2001; Wright 2004; Aharonian et al. 2006). It has been shown recently that the mid-infrared (MIR) $24 \mu\text{m}$ selected sources contribute more than 70 per cent of the CIB at 70 and $160 \mu\text{m}$. Galaxies contributing the most to the total CIB are $z \sim 1$ luminous infrared galaxies, which have intermediate stellar masses (Dole et al. 2006).

To explore these issues related to galaxy formation and evolution and possible relationships between AGN and starburst activity require large samples over wide enough areas, to avoid biases due to large-scale structure variations, as well as multi-wavelength coverages to have a global appraisal of the energy output and of its origin. This means, in particu-

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lar, a far-IR coverage to access the “dusty” objects to get the bolometric energy output; an optical coverage as this is the range where the usual spectroscopic diagnostics are available; the ultraviolet (UV) range as this is where the massive stars have their impact and where the energy is seen in the absence of dust; the radio range to distinguish thermal from non-thermal sources and obtain the best spatial resolution; and possibly a high-energy coverage in X-rays to detect the most powerful AGNs. Amongst the different fields which are being studied extensively, a well-known one selected at infrared wavelengths is the European Large Area ISO (Infrared Space Observatory) Survey (ELAIS), from which we have selected one of the northern fields, the ELAIS-N1, observable with GMRT.

The ELAIS-N1 field has been chosen in a region of the sky with low-IR foreground emission, to allow detection of fainter (and presumably more distant) galaxies; also, because of this advantage, it has already been covered at far-IR wavelengths by the ISO-FIRBACK (Far-Infrared Background) survey at $170\ \mu\text{m}$, to find dusty, high- z galaxies expected to significantly contribute to the far-IR cosmic background and is covered by Spitzer as well, as part of the SWIRE (Spitzer Wide-area Infrared Extragalactic) legacy survey (Lonsdale et al. 2004). The details on the first far-IR data can be found in Dole et al. (2001). Our team has been studying this field in detail, and has particularly made some of the optical spectroscopic observations. Most of the sources identified up to now, essentially the IR-brighter ones, are local, cold, moderately star-forming galaxies rather than the violent starbursts expected at larger distances (Dennefeld et al. 2005). It is now understood that this is partly due to the sensitivity limit of ISO, so that the higher z sources, needed to reproduce the number counts, have to be found among the fainter IR sources detected by Spitzer. Due to its interest in studies of galaxy evolution, it has also been included in the Galex UV survey. It has already optical imaging coverage from LaPalma as part of the INT (Isaac Newton Telescope) Wide Field Survey (McMahon et al. 2001) and a band-merged catalogue is available (Rowan-Robinson et al. 2004). Redshift surveys of the region are underway (e.g. Rowan-Robinson et al. 2008) and it is also partly covered by the Sloan Digital Sky Survey (SDSS, Adelman-McCarthy et al. 2008).

Radio surveys provide important constraints in our understanding of the evolution of the Universe. Traditionally counts of the number of sources as a function of the radio flux density have provided information on the evolution of radio source populations with cosmic epoch (e.g. Longair 1966; Rowan-Robinson et al. 1993). More recently, deep radio surveys have shown a flattening of the source counts at about a mJy at both 610 and 1400 MHz (e.g. Windhorst, Mathis & Neuschaefer 1990; Prandoni et al. 2006 and references therein; Moss et al. 2007 and references therein). The change of slope is believed to be due to a new population of radio sources, the so-called sub-mJy population, consisting largely of low-luminosity AGN and starburst galaxies (e.g. Padovani et al. 2007; Smolčić et al. 2008). The source counts at higher flux densities are dominated by the classical double radio galaxies and quasars (e.g. Condon 1989).

Concerning the ELAIS-N1 field, a Very Large Array (VLA) radio survey has been made at $\lambda 20\ \text{cm}$ by

Cileigi et al. (1999), reaching a brightness limit of $\approx 1\ \text{mJy beam}^{-1}$ (5 sigma) over the 1.54 square degrees of coverage, and deeper in smaller areas. This field has been studied at $\lambda 50\ \text{cm}$ using the Giant Metrewave Radio Telescope (GMRT) by Garn et al. (2008), hereafter referred to as G2008. They have covered a total area of $\approx 9\ \text{deg}^2$ with a resolution of $6 \times 5\ \text{arcsec}^2$ with a total of 19 pointings. In 4 of their pointings they reach an rms of $\approx 40\ \mu\text{Jy beam}^{-1}$ and an rms of $\approx 70\ \mu\text{Jy beam}^{-1}$ in the rest of the pointings. They have catalogued 2500 sources and present a mosaic of maps from their survey. Preliminary results from a study of polarised compact sources (Taylor et al. 2007) at 1420 MHz using the Dominion Radio Astrophysical Observatory Synthesis Telescope (DRAO ST) are also available. They currently present 30% of observations from a survey of $7.4\ \text{deg}^2$ centered on $16^{\text{h}}11^{\text{m}}, +55^{\circ}00'$. They present maps in Stokes I, Q and U with a maximum sensitivity of $78\ \mu\text{Jy beam}^{-1}$, with a resolution of $\approx 1\ \text{arcmin}^2$.

A GMRT coverage of this field, at $\lambda = 90$ and $200\ \text{cm}$, provides an ideal complement to get accurate spectral shapes and indexes over a large frequency range and help establish the nature of the objects. In particular it will help to separate the respective contribution of AGNs and starbursts, a long standing problem for the interpretation of the far-IR emission. It is also relevant to note here that there is a tight correlation between the far-IR and radio luminosities of galaxies (e.g. Helou, Soifer & Rowan-Robinson 1985; Condon 1992) which applies to both local and global properties of galaxies in the nearby and distant Universe (Garrett 2002; Luo & Wu 2005; Hughes et al. 2006; Murphy et al. 2006; Chapman et al. 2005).

As part of our program to explore the issues outlined earlier, we are making deep observations of the ELAIS-N1 field with the GMRT at low frequencies. In this paper we present the results of our GMRT observations at 325 MHz pointed towards the centre of the field ($16^{\text{h}}10^{\text{m}}, +54^{\circ}36'$). We have made the observations on two different days and have made images of the first day separately to check for consistency. The final image made by combining the data of both the days has a median rms noise figure of $\approx 40\ \mu\text{Jy beam}^{-1}$ towards the centre of the field, and is amongst the deepest images made at this frequency. It is more sensitive than the low-frequency survey of the XMM-LSS (Large Scale Structure) field at 325 MHz with the VLA which has a 5σ brightness limit of $\sim 4\ \text{mJy beam}^{-1}$ (Tasse et al. 2006). For comparison, the 5σ limiting brightness of the Westerbork Northern Sky Survey (WENSS; Rengelink et al. 1997) is $\sim 18\ \text{mJy beam}^{-1}$, while for the deeper surveys of selected fields with the Westerbork telescope the corresponding values range from 2.4 to $3.5\ \text{mJy beam}^{-1}$ (Wieringa et al. 1992). The details of our observations and analysis are described in Section 2, while the results are presented in Section 3. The discussion and conclusions are summarised in Section 4.

2 OBSERVATIONS AND DATA REDUCTION

The observation summary along with the calibrators used is presented in Table 1, while some of the imaging details are listed in Table 2, both of which are self explanatory. The data were acquired with a small visibility integration time

Table 1. Observation summary

Date	2005 June 26, 2005 June 27
Working antennas	25
Centre Frequency	325 MHz
Bandwidth	32 MHz
Visibility integration time	4.19 s
Total observation time	10.3 hrs \times 2
Flux Calibrator	
Source	3C286
Time	0.3 hrs \times 2
Flux density	25.97 Jy
Scale	Perley-Taylor 99
Phase Calibrator	
Source	J1459+7140
Time	1.8 hrs \times 2
Flux density	20.17 Jy
Target Field	
Phase centre	J1610+5440
Time	8.2 hrs \times 2
Fraction (f_d) of data used	\approx 40%

Table 2. Imaging summary

Package	AIPS++ (version: 1.9, build #1556)
Image size	5000 \times 5000
Pixel size	2'' \times 2''
Clean Algorithm	Wide-field Clark clean
Imaging Weight	Briggs (rmode='norm', robust=0)
Widefield Imaging Parameters	
Number of facets	9 with 1.5 overlap
Wproject planes	256
Primary Beam correction	Gaussian, FWHM=84.4'
Rms noise	\approx 40 μ Jy beam $^{-1}$
Synthesised beam	9.35'' \times 7.38'', PA=73.25°

from the correlator to help in the identification of radio frequency interference (RFI) and minimize smearing effects. The data reduction was mainly done using AIPS++, and with 3C286 as the primary flux density and bandpass calibrator. After applying bandpass corrections on the phase calibrator (J1459+7140), gain and phase variations were estimated, and then flux density, bandpass, gain and phase calibration from 3C286 and J1459+7140 were applied on the target field (J1610+5440).

While calibrating the data, bad data were flagged at various stages. The data for antennas with high errors in antenna-based solutions were examined and flagged over certain time ranges. Some baselines were flagged based on closure errors on the bandpass calibrator. Channel and time-based flagging of data points corrupted by RFI were done using a median filter with a 6σ threshold. Residual errors above 5σ were also flagged after a few rounds of imaging and self calibration. The system temperature (T_{sys}) was found to vary with antenna, the ambient temperature which has a diurnal variation, and elevation (Sirothia 2008). In the

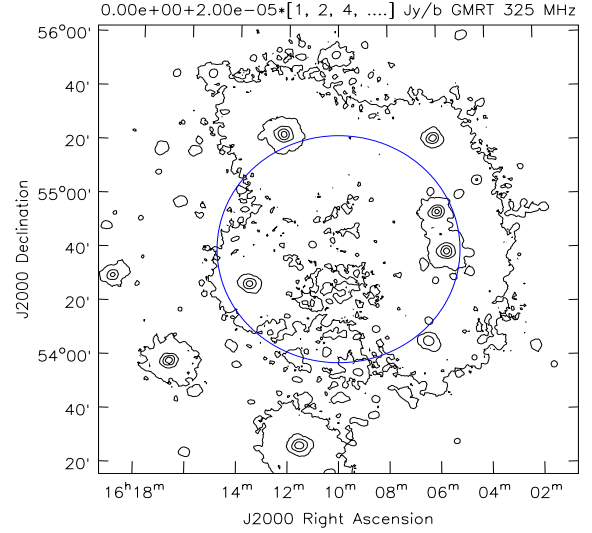


Figure 1. The variation of rms noise across the image before primary beam correction. In this figure and in all the images presented here the contour levels in units of Jy beam $^{-1}$ are represented by mean+rms \times (n) where n is the multiplication factor. These levels are shown above each image. All negative contours appear as dashed lines.

absence of regular T_{sys} measurements for GMRT antennas, this correction was estimated from the residuals of corrected data with respect to the model data. The corrections were then applied to the data. The final image was made after several rounds of phase self calibration, and one round of amplitude self calibration, where the data were normalized by the median gain for all the data. This image was made by combining the data from both the sidebands, giving a total bandwidth of 32 MHz. The final image was also primary beam corrected using the Gaussian parameter as mentioned in Table 2.

The final image has a median rms noise of \approx 40 μ Jy beam $^{-1}$ near the phase centre and 30 μ Jy beam $^{-1}$ near the half power of the beam before primary beam correction. The noise variation across the beam is shown in Fig. 1. Issues related to dynamic range affect the quality of the image near the bright sources where the noise is greater, as can be seen in Fig. 1. An image of a strong source in the field, and the corresponding image at 610 MHz from G2008 is discussed later in the paper. The theoretically expected noise near the phase centre, is given by the following equation,

$$\sigma = \frac{\sqrt{2}T_{sys}}{G\sqrt{n(n-1)f_d\Delta\nu\tau}} \quad (1)$$

where, $T_{sys} \approx$ 108K, the antenna gain $G \approx$.32K Jy $^{-1}$, n is the number of working antennas, $\Delta\nu$ is the bandwidth and τ is the total duration of the observations, f_d is the total fraction of data which has been used for making the final image; the last four parameters being listed in Table 1. For our data set the theoretically calculated value is \sim 22 μ Jy beam $^{-1}$.

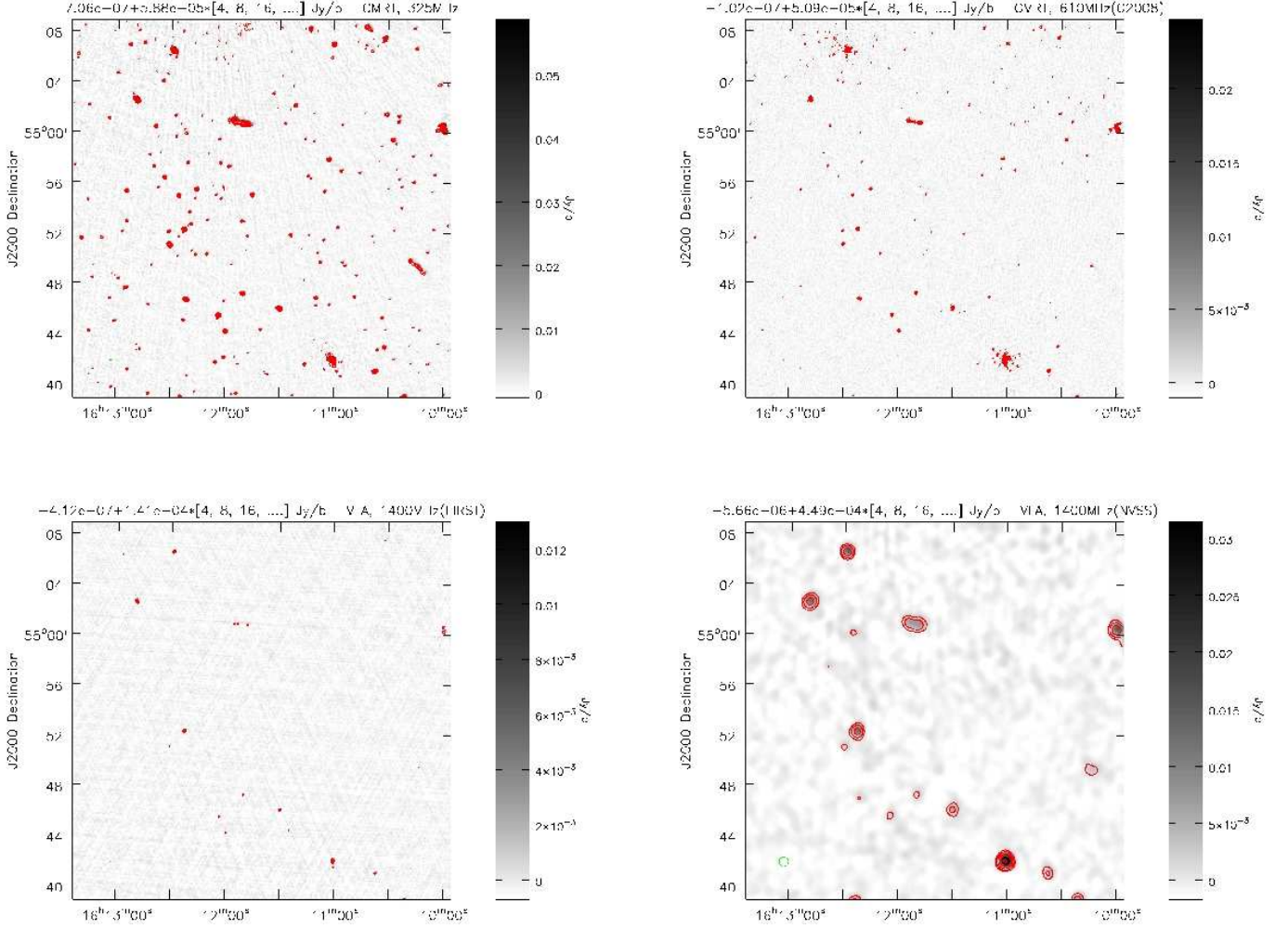


Figure 2. GMRT image of an area of 30×30 arcmin² from our observations at 325 MHz (top left), and the corresponding images of the same area at 610 MHz with the GMRT from G2008 (top right), and from FIRST (bottom left) and NVSS (bottom right) at 1400 MHz.

3 SOURCE CATALOGUE AT 325 MHZ

As an illustration, the GMRT 325-MHz image of a region of about 30×30 arcmin² along with the Faint Images of the Radio Sky at Twenty-centimeters (FIRST, Becker, White & Helfand 1995), and NRAO VLA Sky Survey (NVSS, Condon et al. 1998) images at 1400 MHz and the GMRT image at 610 MHz (G2008) are shown in Fig. 2. The brighter sources are seen clearly in all the images. One of the first tasks for the entire field is to extract and list all the sources along with their positions and flux densities.

3.1 Source extraction criterion

A catalogue of sources within 1.1° radius of the phase centre, which is 18.3 per cent of the primary beam peak value, was created with the peak source brightness greater than 6 times the local rms noise value. A comparison of our sources with those detected in WENSS (Rengelink et al. 1997) for different distances from our phase centre showed no systematic effects and suggests this to be a reasonable value for this

catalogue. The rms noise has been evaluated over an area of approximately 63×63 pixels excluding the source pixels. Since the local noise varies with distance from the phase centre and also in the vicinity of bright sources, this approach has helped minimize the detection of spurious sources.

An extract of sources from the full Table are listed in Table 3, along with some of their observed properties. The full Table consisting of 1286 sources, is available in the on-line version of the paper. Column 1: source name in J2000 co-ordinates where hhmmss represents the hours, minutes and seconds of right ascension and ddmmss represents the degrees, arcmin and arcsec of declination; columns 2 and 3: the right ascension and declination of the source which is the flux-density weighted centroid of all the emission enclosed by the 3σ contour. We have estimated the errors in the positions using the formalism outlined by Condon et al. (1998). The typical error in the positions of the sources is about 1.4 arcsec, consistent with the comparisons of our positions with those of G2008 and FIRST, as discussed in Section 4.1. Column 4: distance of the centroid from the phase centre in

degrees; column 5: the local rms noise value in units of $\mu\text{Jy beam}^{-1}$. The peak and total flux densities within the $3\text{-}\sigma$ contour are listed in columns 6 and 7 respectively. The flux densities of the different sources were estimated as follows. For unresolved sources, the total flux density S_{total} in units of mJy has been taken equal to the peak value S_{peak} in our analysis, although the flux density within the $3\text{-}\sigma$ contour is also listed. For the extended sources the total flux density is the value within the $3\text{-}\sigma$ contour. Fig. 3 shows the $3\text{-}\sigma$ contours for one resolved source and two unresolved sources. For ease of readers the values of total flux densities (S_{total}) thus estimated are mentioned in column 8. For resolved sources we list the largest angular size in column 9, while the unresolved sources have been marked as U in this column. The largest angular size has been estimated by fitting Gaussians to the resolved sources. For single sources it is the deconvolved size of a single Gaussian, while for extended sources it is the sum of the distance between the furthest Gaussian components and their semi-major axes. The categorization of unresolved sources and a discussion of the flux densities are presented in Section 3.1.1.

3.1.1 Source size and flux densities

For low signal-to-noise ratio detections, Gaussian fitting routines may be significantly affected by noise spikes leading to errors in estimating both the width and flux density of the source. The ratio

$$S_{\text{total}}/S_{\text{peak}} = \theta_{\text{min}} \theta_{\text{maj}} / (b_{\text{min}} b_{\text{maj}})$$

where θ_{min} and θ_{maj} are the major and minor axes of the detected source and b_{min} and b_{maj} are the major and minor axes of the restoring beam. The flux density ratio may be used to discriminate between unresolved sources and those which are much larger than the beam (see Prandoni et al. 2006). In Fig. 4, we plot the above ratio of the flux densities to the signal-to-noise ratio ($S_{\text{peak}}/\sigma_{\text{local}}$) for all sources above the $6\sigma_{\text{local}}$ threshold. Clearly sources for which $S_{\text{total}}/S_{\text{peak}} < 1$ have been affected by noise. We first fit a functional form of the curve $f(x) = 1.0 \pm \frac{3.22}{x}$ such that almost all of the points with $S_{\text{total}}/S_{\text{peak}} < 1$ lie above the curve. Reflecting this curve about $S_{\text{total}}/S_{\text{peak}} = 1$ gives a list of all the sources which lie between the two curves and can be considered to be unresolved. This analysis shows that about 73 per cent of the sources (943/1286) are considered to be unresolved and these have been listed as ‘unresolved’ sources (U) in the Table.

3.2 Comparison with WENSS

To compare our estimates of the flux densities with those of the WENSS catalogue we have identified all WENSS sources which lie within 10 arcsec of our $3\text{-}\sigma$ centroid position from the catalog available via Vizier (Ochsenbein et al. 2000). We have compared the positions of the centroids of emission for the unresolved WENSS sources with our sources (as shown in Fig. 5) and find the mean and rms displacement to be 2.45 and 6.61 arcsec in right ascension and -3.45 and 5.78 arcsec in declination. The value of 10 arcsec is the half power synthesized beamwidth of our GMRT observations, while the quoted error in the WENSS positions is ~ 1.5 arcsec (de Bruyn et al. 2000). Within the uncertainties, the GMRT positions are consistent with the WENSS ones.

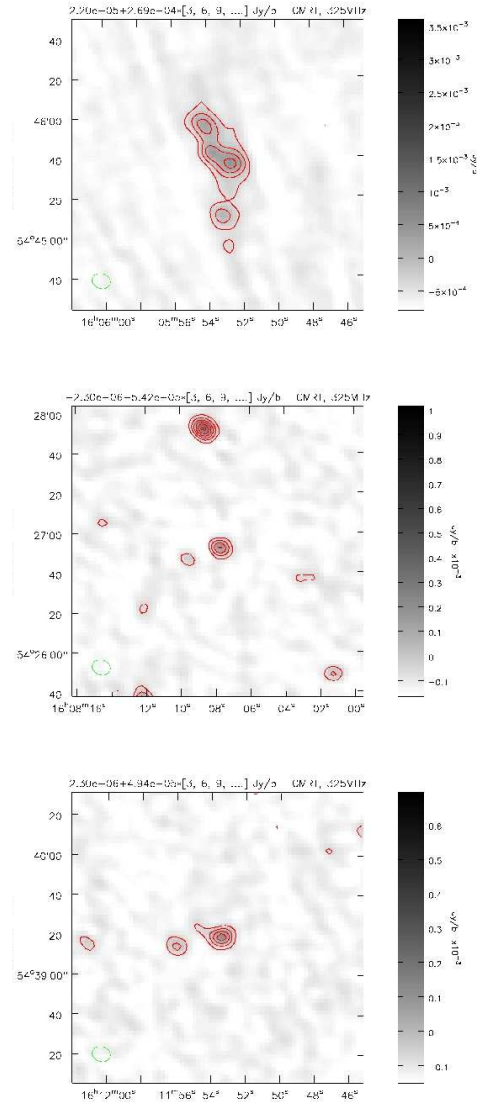


Figure 3. The figure illustrates the $3\text{-}\sigma$ contours used for estimating the corresponding flux densities of a few selected sources from our GMRT observations at 325 MHz. The upper panel shows a resolved source where the total flux density is the value within the $3\text{-}\sigma$ contour, while the middle and lower panels show two unresolved sources where S_{total} has been taken equal to S_{peak} .

Figure 6 shows a comparison of the peak and integrated flux densities estimated from our GMRT observations at 325 MHz with those of the WENSS survey at 330 MHz. There are a total of 72 sources. It is clear that the peak flux densities obtained from the WENSS survey tend to be systematically larger than the GMRT ones by approximately 34 per cent on average. This would be expected in the presence of extended emission because of the larger beamwidth in the WENSS survey of $54 \times 54 \cos \delta$ arcsec² compared with ~ 10 arcsec for the GMRT image. However, while comparing the integrated flux densities, the WENSS flux densities are $\approx 76\%$ of the GMRT values on average. This is perhaps a reflection of the fact that the GMRT image being significantly deeper than the WENSS ones, and thereby more extended

Table 3. The source catalogue. This is a sample source catalogue; the complete catalogue appears in the on-line version.

Source name	RA	DEC	Dist	σ_{rms}	S_{peak}	$S_{total\ 3\sigma}$	S_{total}	Size	Notes
(1)	hh:mm:ss.s	dd:mm:ss.s	deg	$\mu\text{Jy b}^{-1}$	mJy b^{-1}	mJy	mJy	"	(10)
GMRT160515+0544536	16:05:15.2	+54:45:38.0	0.69	231	6.56	13.22	13.22	10.7	
GMRT160522+0542924	16:05:22.4	+54:29:26.7	0.69	197	13.56	28.63	28.63	33.4	
GMRT160524+0544710	16:05:24.3	+54:47:13.7	0.67	149	1.30	1.49	1.30	U	
GMRT160538+0543919	16:05:38.5	+54:39:26.4	0.63	1692	435.71	1022.63	1022.63	77.1	
GMRT160538+0544130	16:05:38.3	+54:41:32.3	0.63	416	2.58	5.48	2.58	U	
GMRT160539+0544544	16:05:39.8	+54:45:45.5	0.63	236	3.72	3.21	3.72	U	
GMRT160542+0544640	16:05:42.6	+54:46:45.6	0.63	245	25.15	30.74	30.74	13.0	
GMRT160551+0543842	16:05:52.0	+54:38:49.1	0.60	478	4.96	11.57	11.57	12.4	
GMRT160553+0542223	16:05:53.6	+54:22:26.6	0.66	96	1.30	1.45	1.30	U	
GMRT160553+0544537	16:05:53.3	+54:45:42.0	0.60	268	3.62	26.68	26.68	57.5	
GMRT160556+0543043	16:05:56.8	+54:30:52.1	0.61	106	0.95	0.92	0.95	U	
GMRT160600+0545402	16:06:00.1	+54:54:08.8	0.62	918	327.65	1076.82	1076.82	109.7	
GMRT160602+0543937	16:06:02.2	+54:39:37.3	0.57	254	2.33	3.54	2.33	U	
GMRT160603+0545930	16:06:03.6	+54:59:37.9	0.65	140	1.40	1.42	1.40	U	
GMRT160605+0542812	16:06:05.8	+54:28:13.9	0.60	187	36.93	63.43	63.43	44.0	
GMRT160606+0542857	16:06:06.4	+54:28:62.9	0.59	160	1.24	1.25	1.24	U	
GMRT160609+0542708	16:06:09.1	+54:27:11.9	0.60	120	1.45	2.71	2.71	6.4	
GMRT160613+0543501	16:06:13.6	+54:35:07.1	0.55	131	0.92	1.58	0.92	U	
GMRT160613+0545322	16:06:13.4	+54:53:28.8	0.59	398	4.45	14.50	14.50	14.8	
GMRT160613+0550149	16:06:13.6	+55:01:50.4	0.65	200	2.70	7.90	7.90	22.4	
GMRT160621+0545636	16:06:21.3	+54:56:37.9	0.59	202	4.10	22.44	22.44	48.5	
GMRT160622+0541332	16:06:22.4	+54:13:41.4	0.69	225	64.81	83.41	83.41	45.4	
GMRT160623+0544129	16:06:23.3	+54:41:36.5	0.52	119	0.83	0.89	0.83	U	
GMRT160624+0545437	16:06:24.5	+54:54:38.4	0.57	199	1.23	0.86	1.23	U	
GMRT160626+0542113	16:06:26.9	+54:21:19.0	0.60	76	0.81	0.63	0.81	U	
GMRT160626+0544906	16:06:26.3	+54:49:07.6	0.54	178	2.27	6.09	6.09	15.0	
GMRT160632+0542453	16:06:32.3	+54:24:56.8	0.56	77	0.61	0.48	0.61	U	
GMRT160633+0544322	16:06:33.6	+54:43:23.6	0.50	98	0.66	0.48	0.66	U	
GMRT160633+0545525	16:06:33.1	+54:55:31.1	0.56	146	0.92	1.28	0.92	U	
GMRT160634+0543451	16:06:34.8	+54:34:57.9	0.50	160	10.58	70.94	70.94	108.5	
GMRT160634+0544542	16:06:34.4	+54:45:49.4	0.50	108	2.77	3.82	3.82	7.8	
GMRT160636+0543247	16:06:36.4	+54:32:53.5	0.51	137	17.34	45.50	45.50	18.0	
GMRT160638+0545918	16:06:38.5	+54:59:25.1	0.58	119	1.53	2.47	1.53	U	
GMRT160639+0542313	16:06:39.1	+54:23:13.2	0.56	77	1.14	1.40	1.14	U	
GMRT160642+0542636	16:06:42.3	+54:26:45.9	0.53	79	3.16	3.50	3.50	9.4	
GMRT160642+0542711	16:06:42.8	+54:27:17.4	0.52	81	0.79	0.68	0.79	U	
GMRT160644+0545341	16:06:44.0	+54:53:49.9	0.52	126	1.21	2.74	1.21	U	
GMRT160647+0541508	16:06:47.2	+54:15:16.6	0.62	102	5.50	10.74	10.74	34.2	
GMRT160650+0542511	16:06:50.7	+54:25:16.1	0.52	75	0.68	1.32	0.68	U	
GMRT160651+0541449	16:06:51.3	+54:14:49.1	0.62	103	1.50	4.90	4.90	24.4	
GMRT160655+0542753	16:06:55.2	+54:27:60.0	0.49	74	0.55	0.52	0.55	U	
GMRT160656+0541457	16:06:56.1	+54:14:63.0	0.61	91	1.14	1.11	1.14	U	
GMRT160657+0550156	16:06:57.5	+55:01:57.0	0.57	102	1.35	4.32	4.32	21.7	
GMRT160657+0550350	16:06:57.8	+55:03:54.9	0.59	92	1.47	1.74	1.47	U	
GMRT160658+0544328	16:06:58.0	+54:43:30.0	0.44	91	13.00	22.90	22.90	35.7	
GMRT160659+0541135	16:06:59.6	+54:11:44.0	0.64	94	0.63	0.48	0.63	U	
GMRT160700+0541343	16:07:00.1	+54:13:48.0	0.62	84	0.65	0.42	0.65	U	
GMRT160702+0542348	16:07:02.6	+54:23:54.6	0.51	61	0.58	0.53	0.58	U	
GMRT160703+0541626	16:07:03.9	+54:16:27.1	0.58	82	0.53	0.60	0.53	U	
GMRT160703+0543414	16:07:03.2	+54:34:20.6	0.44	71	1.35	1.94	1.35	U	

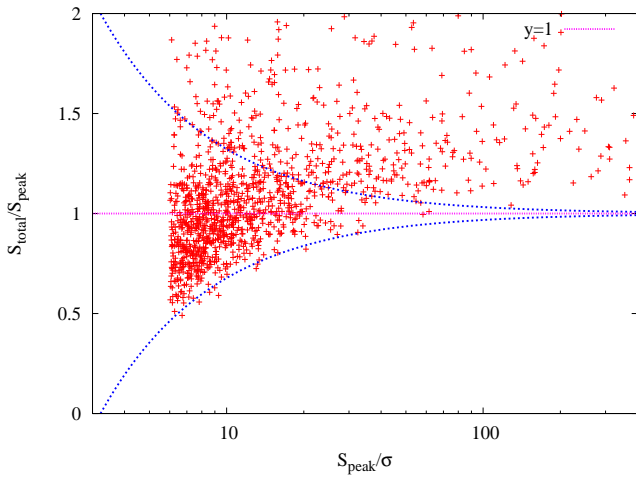


Figure 4. The ratio of the total flux density, S_{total} , to the peak value S_{peak} as a function of the source S_{peak} -to-rms noise (σ) ratio. The 6σ cut-off is adopted for the catalogue definition and the horizontal line gives $S_{\text{total}} = S_{\text{peak}}$ locus. Also shown are the lower and upper envelopes (dashed lines) of the flux density ratio distribution containing almost all the unresolved sources.

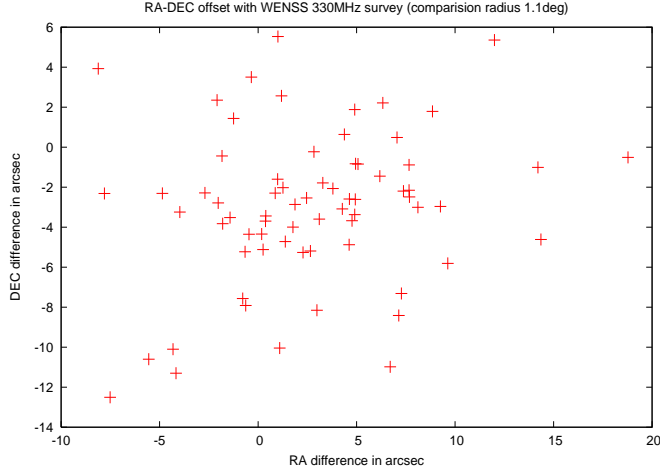


Figure 5. Position difference of the corresponding sources observed by GMRT and WENSS for the unresolved WENSS sources.

emission contributes to the flux density within the $3\text{-}\sigma$ contour level.

3.2.1 Selected extended sources

Figures 7, 8, 9 and 10 show selected images at 325 MHz of extended sources, along with their GMRT 610 MHz, FIRST and NVSS images. Figure 7 shows the image of the source with a high peak brightness of $1.12 \text{ Jy beam}^{-1}$ at 325 MHz. Although artefacts from the sidelobes are still visible in the 325-MHz image, these are less than in the 610-MHz one, which has been made from a number of ‘snap-shots’ with the GMRT (G2008). Figures 8, 9 and 10 show that diffuse extended emission from the lobes as well as bridges of emis-

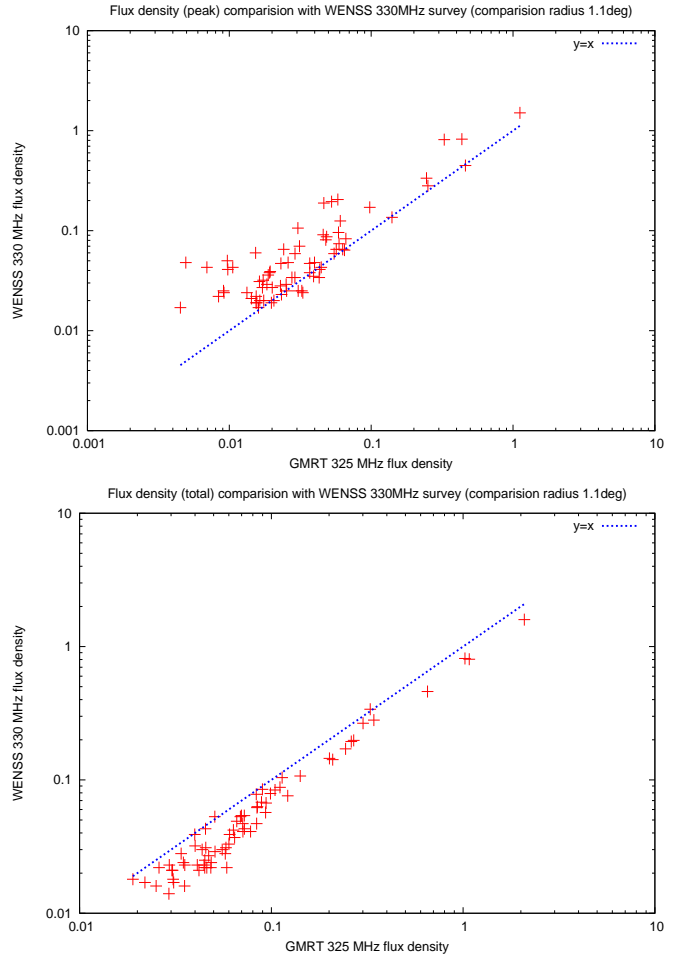


Figure 6. The peak (upper panel) and total (lower panel) flux densities from our observations plotted against the corresponding values from WENSS.

sion are better represented in the 325-MHz images compared with those at the higher frequencies.

4 DISCUSSIONS

4.1 Spectral Index

4.1.1 Source matching methodology

The spectral indices for the sources which are listed in our catalogue and which also appear either in the catalogues of G2008 or FIRST have been estimated. Ideally the resolutions of the observations at the different frequencies should be identical. We have chosen the two catalogues whose resolutions are within a factor of 2 of our observations. For spectral index comparisons, we presently restrict our sample to those sources within 0.7 deg of the phase centre, the half power point of the primary beam. For a distance of 0.7 deg from the phase centre the number of sources in our sample is 844 which is approximately 65 per cent of the total number of sources we list. The corresponding numbers in the G2008 and FIRST catalogues within this distance are 553 and 134 respectively.

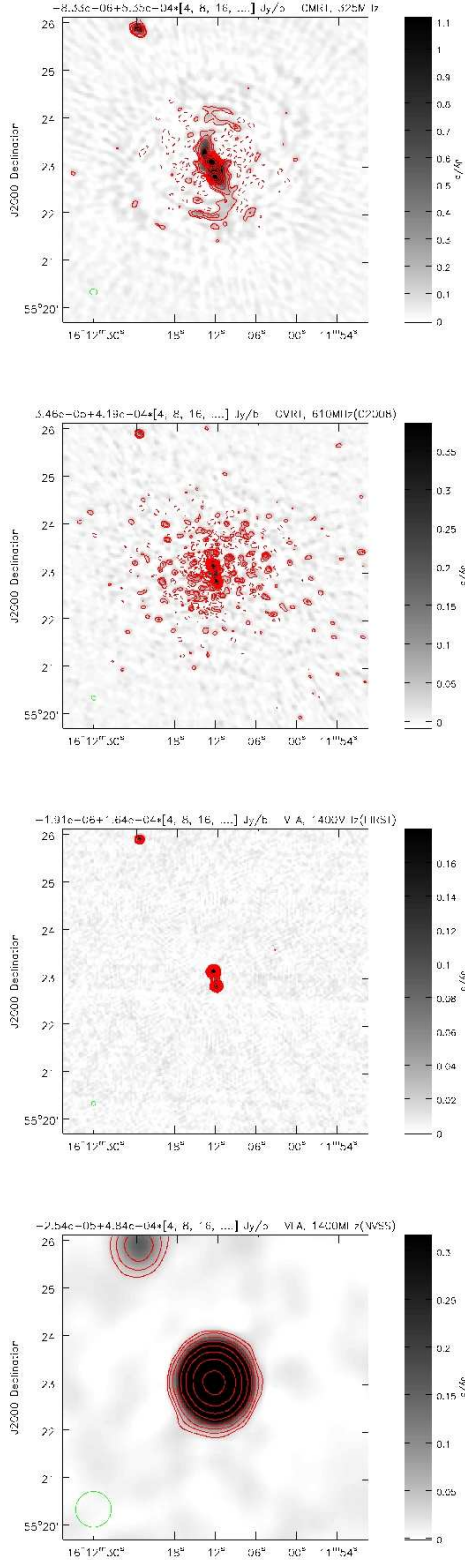


Figure 7. GMRT image at 325 MHz of a strong source in the field to illustrate the effects of dynamic range (top), and the corresponding images of the same region at 610 MHz with the GMRT from G2008, and from FIRST and NVSS at 1400 MHz in descending order.

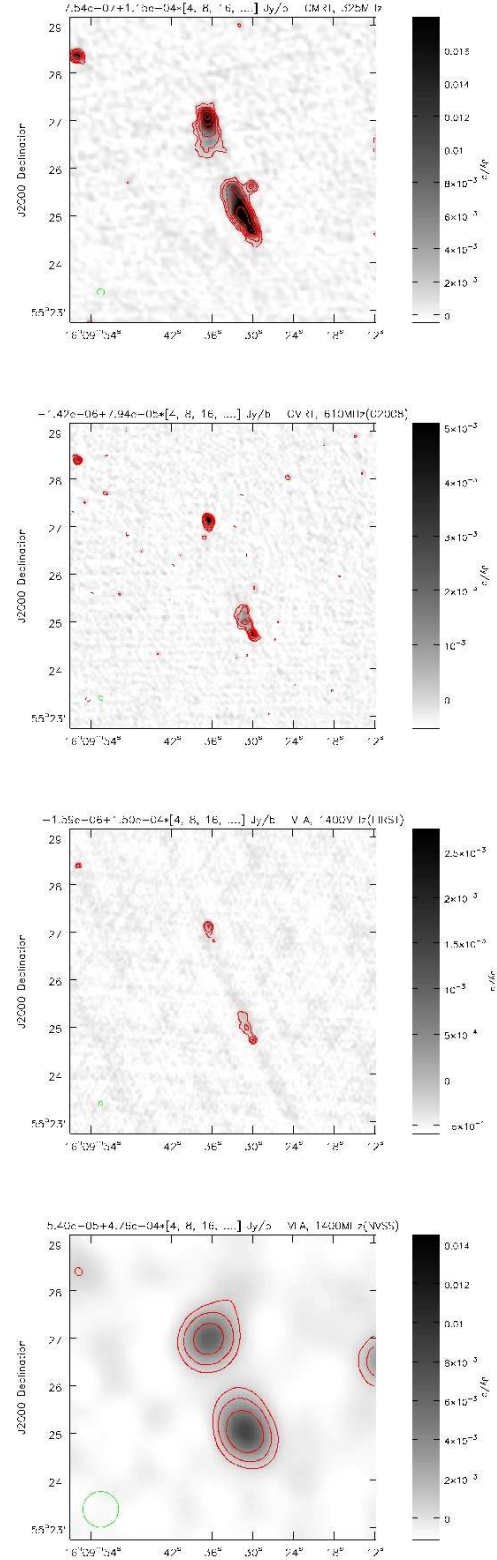


Figure 8. GMRT image at 325 MHz of a source with extended lobes of emission (top), and the corresponding images of the same region at 610 MHz with the GMRT from G2008, and from FIRST and NVSS at 1400 MHz in descending order.

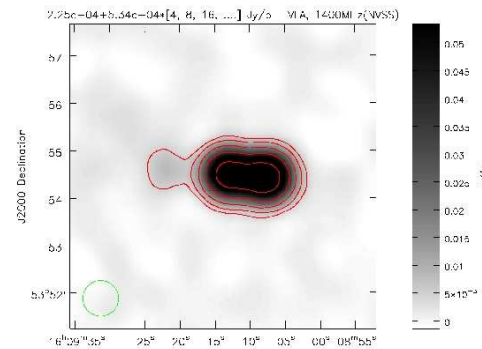
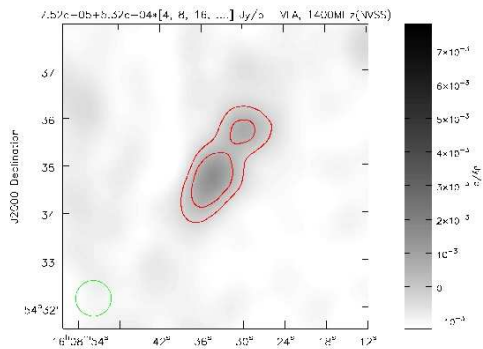
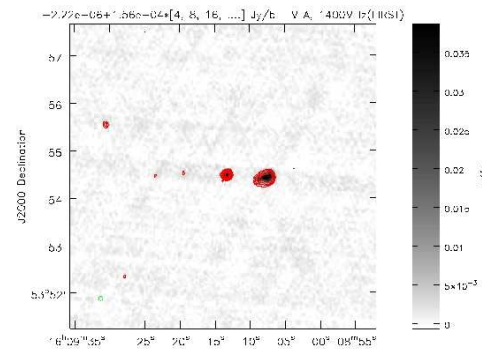
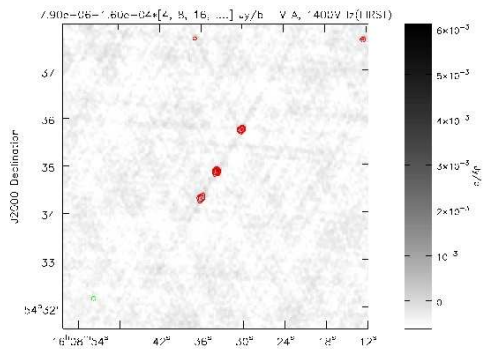
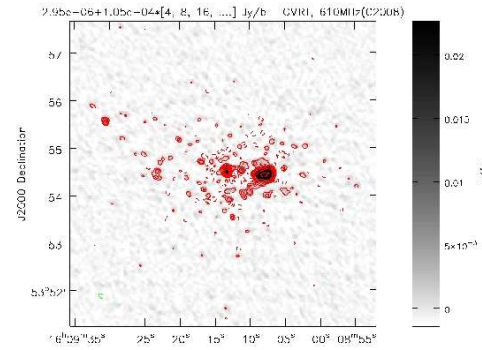
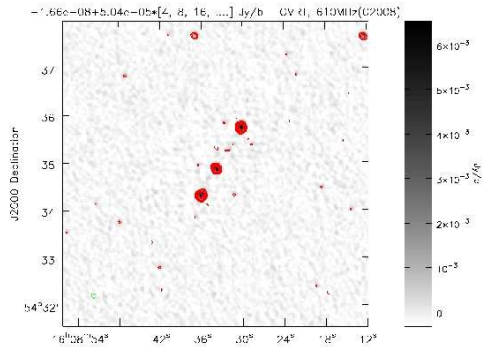
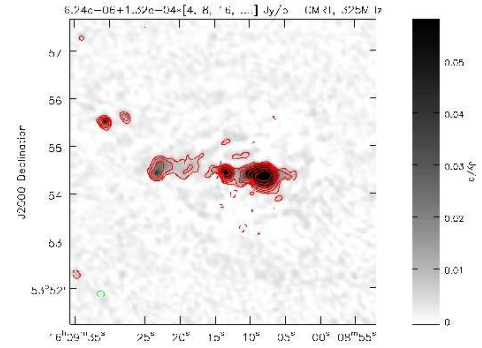
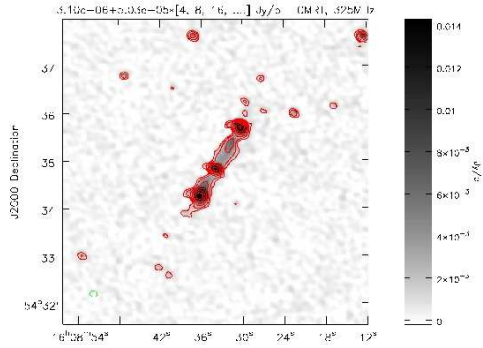


Figure 9. GMRT image at 325 MHz of a source with a bridge of emission (top), and the corresponding images of the same region at 610 MHz with the GMRT from G2008, and from FIRST and NVSS at 1400 MHz in descending order.

Figure 10. GMRT image at 325 MHz of a highly asymmetric double-lobed source with a possible core (top), and the corresponding images of the same region at 610 MHz with the GMRT from G2008, and from FIRST and NVSS at 1400 MHz in descending order.

To identify the sources in G2008 and FIRST which correspond to the sources in our sample, we compared the positions of the unresolved sources in the different catalogues and determined the mean shifts in both right ascension and declination relative to one another. The mean shift between 325–610 MHz is RA: 3.27 ± 3.60 arcsec and DEC: -2.79 ± 1.74 arcsec and between 325 MHz–FIRST is RA: 3.11 ± 1.65 arcsec and DEC: -3.00 ± 1.03 arcsec. After removing the mean shift, a source is considered to be a match if it lies within 7.5 arcsec of the centroid of emission for point sources and within the sum of half the largest angular size and 7.5 arcsec for an extended source. The value of 7.5 arcsec is approximately the sum of half the half power synthesized beamwidths of the observations at the two frequencies. Since the components of a double or triple source are often listed as two or more different components when no bridge emission is detected at 610 and 1400 MHz, the total flux densities at these frequencies have been estimated by summing the flux densities within the emission areas at 325 MHz for estimating the spectral indices. With these criteria 334 sources seen at 325 MHz have matches in the 610-MHz catalogue, while 102 have matches in the 1400-MHz FIRST catalogue. We have checked the number of matches by increasing 7.5 arcsec to 15 arcsec and find that the number of matches remains the same. Since the observations at 610 and 1400 MHz sometimes do not detect the bridge emission and list the components as different sources, the number of matches for these catalogues naturally increases. For instance, 360 of the 553 sources at 610 MHz (G2008) have a match at 325 MHz, while 126 of the 134 sources at 1400 MHz have a match at 325 MHz. Sources may not have a match in the catalogues due to a combination of both sensitivity and spectral indices of the sources, as seen in our recent work on a deep survey of the sky towards a couple of clusters of galaxies at 153, 244, 610 and 1260 MHz (Sirothia et al. 2008).

4.1.2 Very steep-spectrum and GPS sources

We have attempted to identify very steep spectrum radio sources with spectral index $\alpha \geq 1.3$ (α defined as $S \propto \nu^{-\alpha}$), as well as GPS (Giga-Hertz Peaked Spectrum) candidates which are either weak or not detected at 325 MHz and have $\alpha \leq -0.5$. The distributions of the spectral indices between the different frequencies are presented in Fig. 11. The distribution of spectral indices between 610 and 1400 MHz has been published by G2008 and is not reproduced here. The median values of α_{325}^{610} and α_{325}^{1400} are 1.28 and 0.83 respectively. The distribution of α_{610}^{1400} has a broad peak, with the median value of 0.51 being smaller due to a significant population of flat-spectrum objects (G2008). The median value of α_{325}^{610} appears to be on the higher side, and this could be due to more diffuse emission being detected at the lower frequency image.

There are four candidate GPS sources which satisfy the above criteria. These are J1606+5427, J1613+5433, J1613+5422 and J1614+5437. J1606+5427 has a flux density of 2.96 mJy at 1400 MHz in the FIRST catalogue, while its total flux densities at 325 and 610 MHz are 0.68 and 1.3 mJy respectively. The spectral index between 325 and 1400 MHz is -1.01 . J1613+5433, J1613+5422 and J1614+5437 have flux densities of 1.83, 3.49 and 4.54 mJy respectively

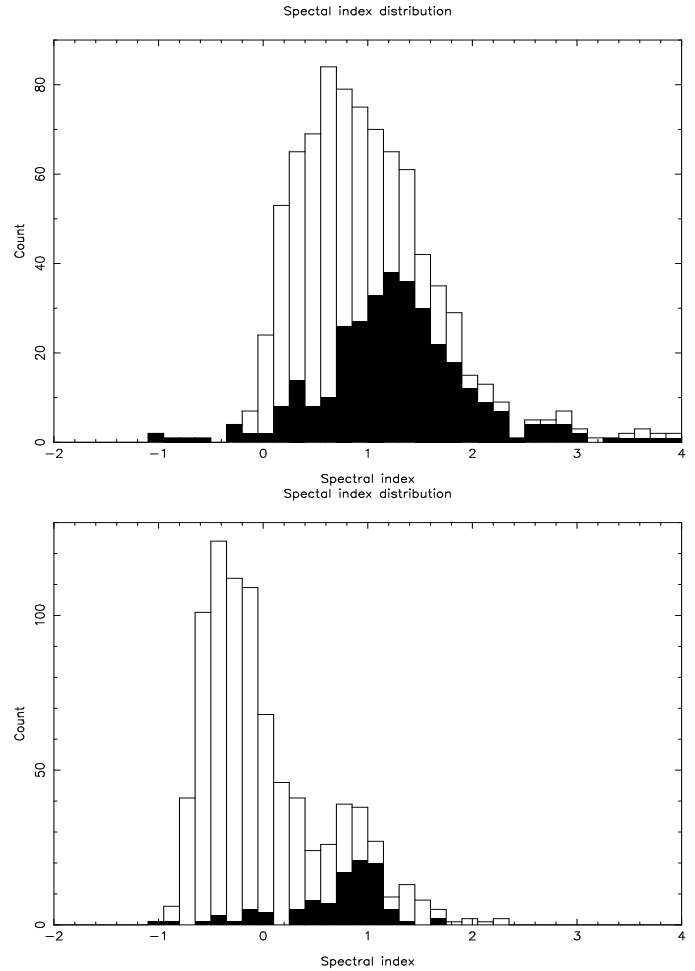


Figure 11. The spectral index distributions between 325 and 610 MHz (top panel) and between 325 and 1400 MHz (lower panel). The sources with estimated values are shown shaded while those with lower limits to the spectral indices are shown unshaded.

in the FIRST catalog but have not been detected at either 325 MHz or at 610 MHz by G2008. These sources are also not visible in NVSS and require further confirmation.

The candidate very steep spectrum sources are listed in Table 4. Images of two of the sources from our observations and the corresponding regions from G2008 and FIRST are shown in Fig. 12. Although the sources are visible in G2008, not all the extended emission seen at 325 MHz is visible in the 610-MHz image. Also, there is no significant emission seen in the FIRST images. Since these candidates have been identified from observations which differ in resolution by a factor of two, it is important to confirm their steep spectral indices from observations with the same resolution at the different frequencies.

4.1.3 Spectral index–flux density relationships

In Fig. 13 we present the plots of α_{325}^{610} and α_{325}^{1400} against the flux density at 325 MHz. Any dependence of spectral index on flux density can be used to study the different populations of sources which may be present at different flux density levels. It is well known that the normalized

Table 4. Candidate very steep spectrum sources

Source name	RA	DEC	Dist	σ_{rms}	S_{peak}	$S_{total\ 3\sigma}$	Size	Notes
(1)	hh:mm:ss.s	dd:mm:ss.s	deg	$\mu\text{Jy b}^{-1}$	mJy b^{-1}	mJy	"	(9)
GMRT160551+543842	16:05:51.9	54:38:42.7	0.60	478	4.96	11.57	12.4	<i>a</i>
GMRT160613+545322	16:06:13.3	54:53:22.6	0.59	398	4.45	14.50	14.8	<i>a</i>
GMRT160613+550149	16:06:13.6	55:01:49.1	0.65	200	2.70	7.90	22.4	
GMRT160621+545636	16:06:21.2	54:56:36.1	0.59	202	4.10	22.44	48.5	
GMRT160626+544906	16:06:26.3	54:49:06.1	0.54	178	2.27	6.09	15.0	<i>b</i>
GMRT160636+543247	16:06:36.3	54:32:47.6	0.51	137	17.34	45.50	18.0	
GMRT160725+544720	16:07:25.7	54:47:20.6	0.39	91	1.83	5.90	41.1	
GMRT160732+545106	16:07:32.0	54:51:06.3	0.40	76	2.87	6.85	29.9	
GMRT160733+545639	16:07:33.4	54:56:39.3	0.45	94	1.24	13.70	58.9	
GMRT160746+541159	16:07:46.1	54:11:59.9	0.57	71	4.93	7.38	11.5	
GMRT160757+551013	16:07:57.6	55:10:13.0	0.58	82	2.85	8.33	15.2	
GMRT160800+542144	16:08:00.9	54:21:44.8	0.42	63	3.54	9.02	34.9	<i>c</i>
GMRT160801+542025	16:08:01.8	54:20:25.2	0.43	76	8.51	25.69	23.4	
GMRT160825+551755	16:08:25.5	55:17:55.4	0.67	83	2.74	7.54	26.8	
GMRT160850+545348	16:08:50.4	54:53:48.1	0.28	58	2.04	6.21	15.9	
GMRT160931+541915	16:09:31.5	54:19:15.4	0.35	58	3.07	5.93	9.3	
GMRT160932+542028	16:09:32.7	54:20:28.5	0.33	63	1.27	6.65	33.3	<i>d</i>
GMRT160948+551646	16:09:48.9	55:16:46.9	0.61	109	2.67	17.40	57.4	
GMRT160949+540826	16:09:49.6	54:08:26.2	0.53	70	4.87	8.23	21.3	
GMRT161008+540753	16:10:08.7	54:07:53.4	0.54	66	4.14	16.77	38.7	
GMRT161013+544924	16:10:13.4	54:49:24.9	0.16	55	1.65	10.09	93.5	
GMRT161016+540143	16:10:16.8	54:01:43.1	0.64	70	4.11	5.50	11.7	
GMRT161030+540249	16:10:30.7	54:02:49.4	0.62	78	1.80	7.17	39.4	
GMRT161040+540626	16:10:40.6	54:06:26.6	0.57	65	4.74	12.69	28.7	
GMRT161040+550824	16:10:40.7	55:08:24.8	0.48	76	2.18	6.10	35.1	
GMRT161230+545105	16:12:30.5	54:51:05.3	0.41	62	3.98	7.99	10.2	
GMRT161319+541033	16:13:19.7	54:10:33.1	0.69	91	2.85	6.99	29.1	
GMRT161349+550140	16:13:49.5	55:01:40.2	0.66	86	2.04	6.41	15.1	
GMRT161358+550219	16:13:58.2	55:02:19.9	0.68	94	2.53	8.06	15.0	<i>e</i>
GMRT161424+544314	16:14:24.4	54:43:14.4	0.64	101	3.23	6.06	9.1	

Notes: *a* strong source nearby; *b* diffuse extended emission visible in the NVSS image; *c* double-lobed source; *d* northern component of an asymmetric double; *e* north-western component of a triple lobed source.

source counts tend to flatten at low flux densities corresponding to ≤ 0.5 mJy at 1400 MHz and 1 mJy at 610 MHz (Padovani et al. 2007; G2008 and references therein). At high flux densities the radio source counts are due to double-lobed radio galaxies and quasars with spectral indices ranging from ~ 0.6 to 1.5 (cf. Laing & Peacock 1980). The spectral indices of these sources are known to be correlated with radio luminosity and/or redshift, leading to several searches for high-redshift galaxies amongst the very steep spectrum radio sources (e.g. McCarthy et al. 1990; De Breuck et al. 2000). The flattening of the source counts at low flux densities is generally ascribed to a population of starburst galaxies, low luminosity AGN and radio quiet QSOs (e.g. Seymour et al. 2004; Simpson et al. 2006; Padovani et al. 2007; Smolčić et al. 2008). While starburst galaxies are expected to have a radio spectral index in the range of ~ 0.5 to 0.8 at low radio frequencies which are dominated by non-thermal emission, the nuclear components of low luminosity AGN could have spectral indices ≤ 0.5 . In a study of the VLA Deep Field, Bondi et al. (2007) find the median spectral index to be 0.46 ± 0.03 for sources with a flux density $0.15 \leq S < 0.50$ mJy at 1400 MHz while those above this flux density have a median spectral index of 0.67 ± 0.05 . They attribute the flatter spectral index at the lower flux density level to a population of low luminosity

AGN. Although we need to determine the spectral indices from similar-resolution data, Fig. 13 shows α_{325}^{610} , and α_{325}^{1400} against the flux density at 325 MHz. For α_{325}^{610} , 510 sources have limits while for α_{325}^{1400} 742 sources have limits to their spectral indices. Given the large fraction of sources with limits to their spectral indices, it is difficult to determine reliably any dependence of spectral index on flux density. It is required to observe this field with deeper sensitivity at higher frequencies to determine their spectral indices and investigate any such dependence.

4.2 Source counts

We constructed the source counts at 325 MHz for our sample of sources by binning them in different ranges of flux density starting from 315 μJy , so that even the sources in the lowest-flux density bin have a typical peak flux density to rms ratio of about 8. The corrections due to source incompleteness is negligible as can also be seen in the results from Fig. 5 of Tasse et al. (2006). The source counts were corrected for the fraction of the area (Fig. 14) over which the source could be detected because of the increase in noise near the bright sources. The flux density bins, the average flux density for each bin, the number of sources in each bin, the noise corrected number of sources, the differential source

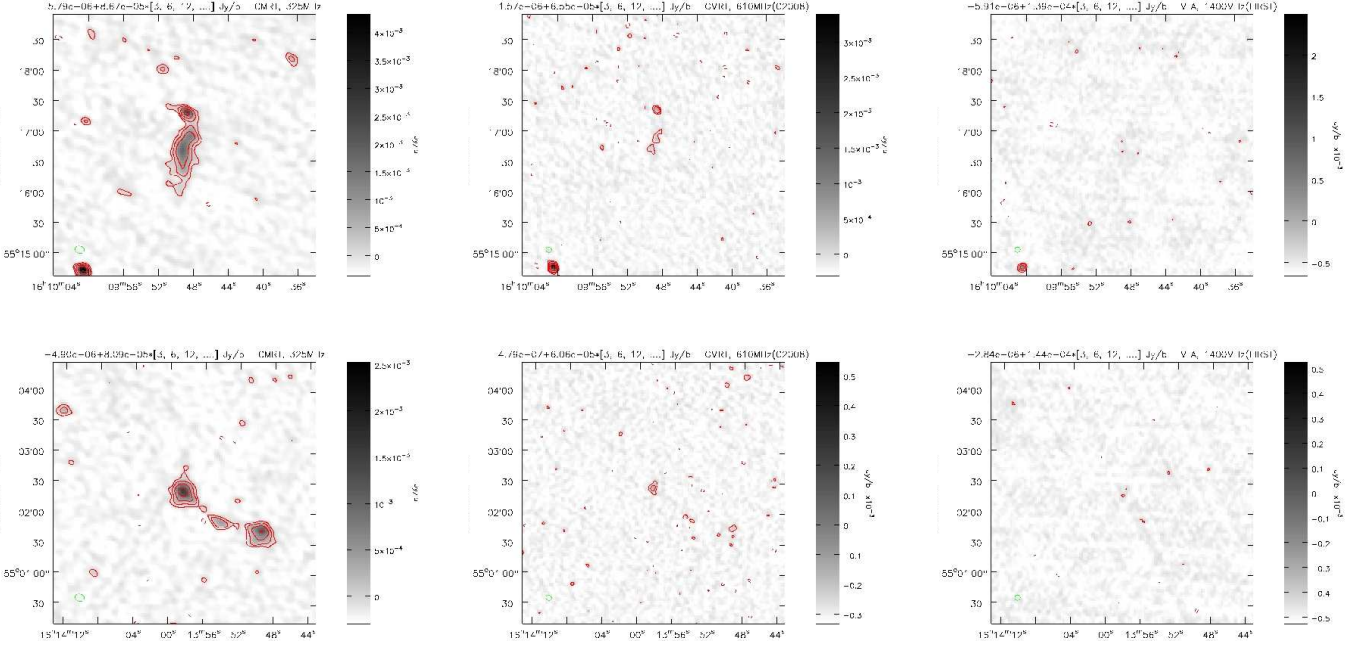


Figure 12. Images of two of the candidate very steep spectrum sources, GMRT160948+551649 (upper row) and GMRT161357+550213 (lower row) at 325 (left), 610 (middle, G2008) and 1400 MHz (right, FIRST).

counts and the normalized source counts are listed in Table 5. The differential source counts, which have been estimated by dividing the noise corrected number of sources by the area of the image in steradians and the width of the flux density range, is shown in Fig. 15. We have also plotted the differential source counts for the WENSS sources for the same area. The WENSS sources plotted here are stronger than about 18 mJy, while the sources from our survey are much weaker, extending to about 270 μ Jy, although in present study for source counts we consider only those above 315 μ Jy. There is evidence of the source counts flattening at about a mJy, consistent with higher frequency studies, although more data at low flux density levels are required at this frequency. Since the earlier surveys in the literature at 325 MHz are limited to higher flux density levels, the flattening in the source counts at this frequency has not been reported earlier (Wieringa 1991; Tasse et al. 2006). The functional form fitted by Wieringa (1991) to the differential source counts ranging from about 4 mJy to 1 Jy from his deep 325-MHz Westerbork survey, shown in Fig. 15, also illustrates clearly the flattening of the source counts at low flux densities. This functional form is also consistent with the measurements of Tasse et al. (2006) (see their Fig. 7) whose sources range from about 3 to 500 mJy. A more detailed modeling of the source counts will be presented in a subsequent paper, after combining with data from other fields observed with the GMRT at the same frequency.

We have integrated the number counts from our survey, yielding a surface brightness of 4.04×10^{-5} nW m $^{-2}$ sr $^{-1}$, which gives a lower limit to the contribution of extragalactic sources to the cosmic radio background at 325 MHz (Dwek & Barker 2002).

Table 5. Differential source counts at 325 MHz

Flux bin mJy	$\langle S \rangle$ mJy	N	N_c	$\frac{dN}{dS} \langle S \rangle^{2.5}$ sr $^{-1}$ Jy $^{1.5}$
0.315-0.413	0.367	120	800.4	18.25 ± 0.65
0.413-0.566	0.485	174	601.4	17.55 ± 0.72
0.566-0.813	0.684	209	438.8	18.80 ± 0.90
0.813-1.221	0.998	194	267.0	17.78 ± 1.09
1.221-1.917	1.495	165	170.1	18.22 ± 1.40
1.917-3.151	2.453	103	103.8	21.65 ± 2.13
3.151-5.416	4.139	71	71.2	29.93 ± 3.55
5.416-9.742	6.851	67	67.1	52.03 ± 6.35
9.742-18.33	13.64	53	53.0	115.9 ± 15.92
18.33-36.08	24.83	41	41.0	193.8 ± 30.27
36.08-74.32	54.31	33	33.0	512.3 ± 89.19
74.32-160.1	98.06	15	15.0	454.5 ± 117.4
160.1-360.9	269.3	8	8.0	1294 ± 457.6
360.9-851.2	652.4	1	1.0	605.5 ± 605.5
851.2- 2100	1395	3	3.0	4764 ± 2751

5 CONCLUDING REMARKS

We have presented deep observations of the ELAIS-N1 field at 325 MHz using the GMRT. This is part of an ongoing program to examine the source counts and the nature of radio sources identified from sensitive observations at low radio frequencies with the objective of identifying AGN and starburst galaxies and examining their evolution with cosmic epoch. For this data set we have achieved a median rms noise of ≈ 40 μ Jy beam $^{-1}$ towards the phase centre by combining data from two different days, which is about the lowest that has been achieved at this frequency. We detect 1286 sources with a total flux density above $\approx 270 \mu$ Jy

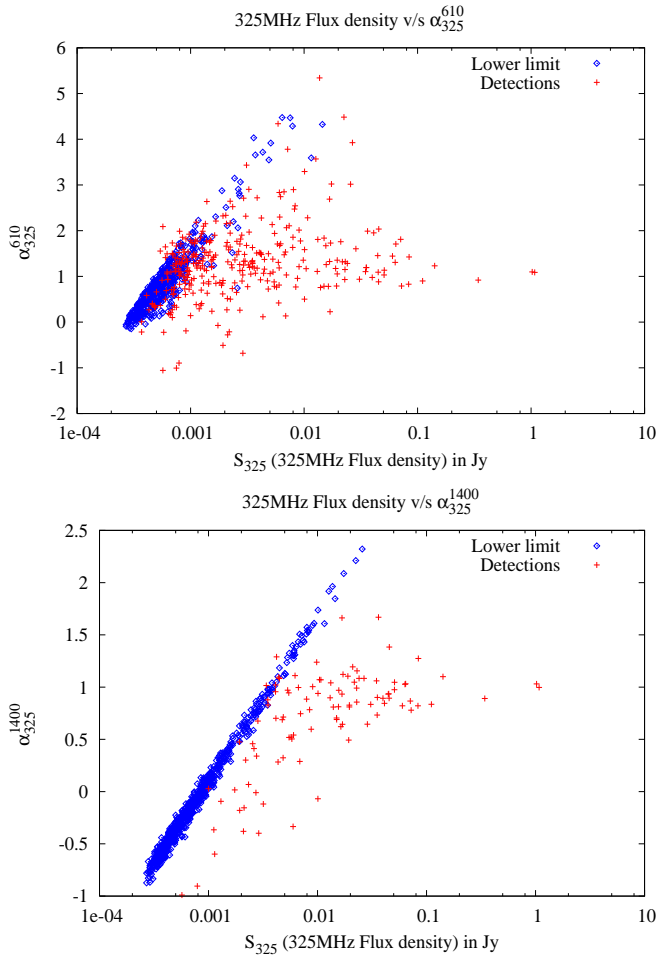


Figure 13. The spectral indices as a function of flux density. The sources with lower limits are shown by open diamonds, while those with measured values are shown by the + sign.

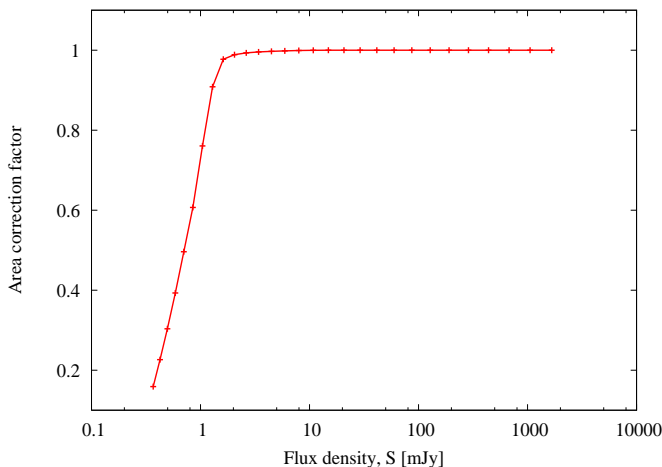


Figure 14. Visibility area as a function of radio flux density

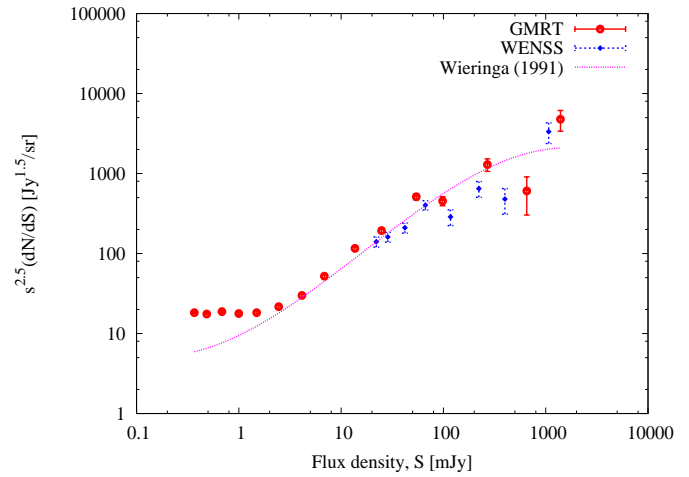


Figure 15. The normalized differential source counts at 325 MHz for sources from our present observations (circles) and WENSS at 330 MHz (diamonds) for all sources located within 1.1° of the phase centre of our observations. This is ~ 18.3 per cent of the beamwidth of the GMRT primary beam at 325 MHz. The continuous curve represents the functional form of the fit to the source counts by Wieringa (1991) for sources in the flux density range of ~ 4 mJy to 1 Jy.

within a radius of 1.1° of the phase centre. By comparing our results with those of G2008 and the FIRST survey, whose resolutions are within a factor of two we have identified candidate very steep spectrum sources with a $\alpha \geq 1.3$ and candidate GPS objects for further investigations. Considering only those sources with a flux density $> 315 \mu\text{Jy}$, so that any effects of incompleteness are negligible, our data show evidence of a flattening of the source counts at low flux densities at 325 MHz, which has been reported earlier at higher frequencies and attributed to both starburst galaxies and low luminosity AGN. This needs to be investigated further by combining it with sensitive observations from other fields as well at this frequency.

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Table 3. The source catalogue (available in online version only).

Source name	RA	DEC	Dist	σ_{rms}	S_{peak}	$S_{total\ 3\sigma}$	S_{total}	Size	Notes
(1)	hh:mm:ss.s	dd:mm:ss.s	deg	$\mu\text{Jy b}^{-1}$	mJy b^{-1}	mJy	mJy	"	(10)
GMRT160232+0545404	16:02:32.8	+54:54:06.9	1.10	267	22.92	48.57	48.57	16.6	
GMRT160234+0544706	16:02:34.7	+54:47:10.0	1.08	212	1.56	1.59	1.56	U	
GMRT160248+0544735	16:02:48.5	+54:47:39.3	1.05	223	8.46	12.47	12.47	9.9	
GMRT160253+0545951	16:02:53.0	+54:59:51.6	1.08	205	2.23	6.17	6.17	19.1	
GMRT160255+0550533	16:02:55.1	+55:05:34.7	1.10	244	2.20	3.62	3.62	10.8	
GMRT160309+0542114	16:03:09.6	+54:21:20.9	1.04	192	1.22	0.87	1.22	U	
GMRT160309+0550028	16:03:09.3	+55:00:31.9	1.04	196	1.59	1.49	1.59	U	
GMRT160316+0543157	16:03:16.2	+54:31:60.9	0.98	209	20.06	44.96	44.96	17.5	
GMRT160317+0541310	16:03:17.9	+54:13:11.5	1.07	227	3.46	4.18	3.46	U	
GMRT160319+0542541	16:03:19.6	+54:25:41.1	1.00	191	1.63	2.32	1.63	U	
GMRT160321+0550642	16:03:21.1	+55:06:49.5	1.05	206	6.24	9.36	9.36	9.3	
GMRT160323+0543734	16:03:23.3	+54:37:34.8	0.96	162	3.10	3.70	3.10	U	
GMRT160333+0540535	16:03:33.9	+54:05:44.5	1.10	420	10.05	15.50	15.50	8.3	
GMRT160333+0542906	16:03:33.7	+54:29:08.7	0.95	210	9.76	60.57	60.57	35.1	
GMRT160335+0540510	16:03:35.5	+54:05:19.9	1.10	424	66.35	98.97	98.97	27.8	
GMRT160336+0544115	16:03:37.0	+54:41:21.0	0.92	153	1.54	1.73	1.54	U	
GMRT160340+0545124	16:03:40.2	+54:51:24.4	0.93	160	2.87	3.08	2.87	U	
GMRT160344+0540315	16:03:45.0	+54:03:22.1	1.10	239	1.45	0.92	1.45	U	
GMRT160348+0542621	16:03:48.6	+54:26:28.8	0.93	198	4.99	6.22	6.22	9.4	
GMRT160357+0542839	16:03:57.6	+54:28:48.7	0.90	162	1.61	2.03	1.61	U	
GMRT160359+0550352	16:03:59.4	+55:03:54.5	0.95	190	1.45	1.86	1.45	U	
GMRT160401+0541749	16:04:01.2	+54:17:54.4	0.94	179	1.60	1.38	1.60	U	
GMRT160401+0551459	16:04:01.4	+55:14:60.0	1.04	198	4.65	6.15	6.15	5.3	
GMRT160406+0542043	16:04:06.2	+54:20:50.9	0.91	151	3.23	4.07	4.07	5.6	
GMRT160407+0535953	16:04:07.2	+53:59:56.4	1.09	240	2.12	2.26	2.12	U	
GMRT160408+0542529	16:04:08.3	+54:25:29.6	0.88	156	1.28	1.19	1.28	U	
GMRT160408+0545810	16:04:08.6	+54:58:16.6	0.90	158	3.94	4.85	3.94	U	
GMRT160409+0540500	16:04:09.4	+54:05:00.7	1.03	194	1.37	0.96	1.37	U	
GMRT160409+0551454	16:04:10.0	+55:14:56.1	1.02	193	8.82	16.27	16.27	13.2	
GMRT160409+0551810	16:04:09.1	+55:18:11.7	1.05	203	2.04	2.60	2.04	U	
GMRT160411+0551254	16:04:11.8	+55:12:60.4	1.00	208	9.91	14.57	14.57	23.7	
GMRT160413+0543931	16:04:13.9	+54:39:33.5	0.83	160	2.60	3.27	2.60	U	
GMRT160413+0551050	16:04:13.6	+55:10:52.6	0.98	192	3.78	5.20	3.78	U	
GMRT160418+0544956	16:04:18.5	+54:49:58.2	0.84	152	9.17	25.96	25.96	28.0	
GMRT160419+0541520	16:04:19.1	+54:15:28.8	0.92	157	1.68	1.78	1.68	U	
GMRT160419+0551114	16:04:19.4	+55:11:22.8	0.97	191	4.79	6.93	4.79	U	
GMRT160420+0542317	16:04:20.2	+54:23:18.7	0.87	142	6.55	7.82	7.82	4.6	
GMRT160421+0550543	16:04:21.9	+55:05:45.6	0.92	362	140.12	208.86	208.86	99.7	
GMRT160427+0552245	16:04:27.4	+55:22:48.8	1.07	216	1.65	1.53	1.65	U	
GMRT160428+0541456	16:04:28.5	+54:14:58.1	0.91	134	2.36	2.38	2.36	U	
GMRT160429+0540916	16:04:29.2	+54:09:26.0	0.95	153	1.06	1.12	1.06	U	
GMRT160429+0544334	16:04:29.9	+54:43:42.4	0.80	160	2.47	4.19	4.19	21.3	
GMRT160430+0540057	16:04:30.0	+54:00:62.9	1.03	284	7.11	8.59	8.59	4.7	
GMRT160433+0535358	16:04:33.7	+53:53:64.7	1.10	233	11.46	16.09	16.09	6.2	
GMRT160434+0544428	16:04:34.1	+54:44:28.3	0.79	159	1.76	1.89	1.76	U	
GMRT160435+0535934	16:04:35.5	+53:59:41.1	1.04	495	97.77	200.93	200.93	48.8	
GMRT160435+0543413	16:04:35.0	+54:34:16.4	0.79	198	9.76	23.67	23.67	24.5	
GMRT160437+0552056	16:04:37.8	+55:20:64.5	1.03	219	1.57	1.33	1.57	U	
GMRT160439+0542123	16:04:39.4	+54:21:25.4	0.84	148	1.14	0.84	1.14	U	
GMRT160440+0543138	16:04:40.2	+54:31:40.1	0.78	303	47.89	89.85	89.85	23.1	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size '' (9)	Notes (10)
GMRT160440+0545725	16:04:40.7	+54:57:35.0	0.82	145	1.57	1.60	1.57	U	
GMRT160441+0543828	16:04:41.2	+54:38:28.0	0.77	291	45.93	104.51	104.51	30.5	
GMRT160441+0545047	16:04:41.0	+54:50:48.5	0.79	145	1.67	1.50	1.67	U	
GMRT160442+0543059	16:04:42.1	+54:30:60.1	0.78	288	1.86	6.83	6.83	12.2	
GMRT160442+0544319	16:04:42.1	+54:43:19.9	0.77	170	2.08	2.98	2.08	U	
GMRT160442+0550727	16:04:42.6	+55:07:32.5	0.89	159	1.62	1.76	1.62	U	
GMRT160443+0543330	16:04:43.6	+54:33:31.5	0.77	196	1.36	1.29	1.36	U	
GMRT160445+0535710	16:04:45.1	+53:57:13.4	1.05	216	2.25	2.21	2.25	U	
GMRT160451+0545014	16:04:51.7	+54:50:23.6	0.76	141	1.20	1.27	1.20	U	
GMRT160453+0541450	16:04:53.1	+54:14:53.5	0.85	129	1.67	1.76	1.67	U	
GMRT160457+0542123	16:04:57.1	+54:21:30.1	0.80	125	0.78	0.96	0.78	U	
GMRT160457+0545714	16:04:58.0	+54:57:22.6	0.78	142	1.36	1.42	1.36	U	
GMRT160500+0541336	16:05:00.4	+54:13:44.6	0.85	153	2.44	10.04	10.04	39.7	
GMRT160500+0552352	16:05:01.0	+55:23:52.0	1.02	229	15.03	20.30	20.30	4.3	
GMRT160503+0541815	16:05:03.6	+54:18:20.2	0.80	112	1.23	0.93	1.23	U	
GMRT160504+0544432	16:05:04.3	+54:44:34.4	0.72	173	1.05	0.72	1.05	U	
GMRT160505+0550042	16:05:05.4	+55:00:45.1	0.79	357	52.60	268.82	268.82	49.7	
GMRT160505+0550624	16:05:05.8	+55:06:28.2	0.83	140	1.46	1.63	1.46	U	
GMRT160505+0550837	16:05:05.2	+55:08:43.5	0.85	137	0.84	0.71	0.84	U	
GMRT160507+0540251	16:05:07.4	+54:02:51.7	0.94	183	7.22	10.26	10.26	8.2	
GMRT160508+0550026	16:05:09.0	+55:00:28.4	0.78	311	2.67	3.27	2.67	U	
GMRT160514+0552315	16:05:14.6	+55:23:18.7	0.99	218	1.41	0.94	1.41	U	
GMRT160515+0544536	16:05:15.2	+54:45:38.0	0.69	231	6.56	13.22	13.22	10.7	
GMRT160516+0535407	16:05:16.1	+53:54:12.8	1.03	207	3.27	3.62	3.27	U	
GMRT160518+0545237	16:05:18.3	+54:52:44.1	0.71	155	1.06	0.83	1.06	U	
GMRT160519+0542056	16:05:19.2	+54:20:62.5	0.75	133	10.71	21.29	21.29	30.2	
GMRT160519+0550223	16:05:19.7	+55:02:23.8	0.77	142	1.49	1.31	1.49	U	
GMRT160522+0535240	16:05:22.5	+53:52:45.6	1.04	186	3.02	3.17	3.02	U	
GMRT160522+0542924	16:05:22.4	+54:29:26.7	0.69	197	13.56	28.63	28.63	33.4	
GMRT160524+0544710	16:05:24.3	+54:47:13.7	0.67	149	1.30	1.49	1.30	U	
GMRT160525+0551330	16:05:25.5	+55:13:30.2	0.86	158	3.57	5.56	5.56	9.3	
GMRT160527+0535534	16:05:27.8	+53:55:35.8	0.99	186	8.80	12.32	12.32	12.5	
GMRT160533+0540101	16:05:33.5	+54:01:04.8	0.92	160	3.48	4.20	3.48	U	
GMRT160536+0541222	16:05:36.3	+54:12:31.0	0.79	129	1.57	1.77	1.57	U	
GMRT160538+0543919	16:05:38.5	+54:39:26.4	0.63	1692	435.71	1022.63	1022.63	77.1	
GMRT160538+0544130	16:05:38.3	+54:41:32.3	0.63	416	2.58	5.48	2.58	U	
GMRT160539+0544544	16:05:39.8	+54:45:45.5	0.63	236	3.72	3.21	3.72	U	
GMRT160542+0544640	16:05:42.6	+54:46:45.6	0.63	245	25.15	30.74	30.74	13.0	
GMRT160544+0535728	16:05:44.5	+53:57:31.7	0.94	158	2.16	2.73	2.16	U	
GMRT160544+0551021	16:05:44.5	+55:10:24.1	0.79	143	0.90	0.70	0.90	U	
GMRT160545+0551139	16:05:45.5	+55:11:47.5	0.81	143	1.18	0.95	1.18	U	
GMRT160546+0552803	16:05:46.8	+55:28:06.7	1.00	241	6.29	8.33	8.33	8.0	
GMRT160547+0540428	16:05:47.5	+54:04:33.5	0.85	188	3.89	5.00	5.00	5.1	
GMRT160551+0543842	16:05:52.0	+54:38:49.1	0.60	478	4.96	11.57	11.57	12.4	
GMRT160551+0550410	16:05:52.0	+55:04:16.7	0.72	127	2.31	2.75	2.31	U	
GMRT160552+0534512	16:05:52.4	+53:45:18.5	1.09	217	3.44	6.73	6.73	7.6	
GMRT160552+0535421	16:05:52.6	+53:54:26.5	0.97	162	1.71	1.61	1.71	U	
GMRT160552+0540647	16:05:52.9	+54:06:56.3	0.82	170	10.80	15.99	15.99	15.4	
GMRT160553+0541740	16:05:53.8	+54:17:43.1	0.70	106	9.44	12.29	12.29	20.1	
GMRT160553+0542223	16:05:53.6	+54:22:26.6	0.66	96	1.30	1.45	1.30	U	

Table 3 – continued

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size '' (9)	Notes (10)
GMRT160553+0544537	16:05:53.3	+54:45:42.0	0.60	268	3.62	26.68	26.68	57.5	
GMRT160553+0551030	16:05:53.3	+55:10:37.9	0.78	149	23.33	30.29	30.29	29.8	
GMRT160555+0551311	16:05:55.3	+55:13:11.7	0.81	151	1.12	1.32	1.12	U	
GMRT160556+0543043	16:05:56.8	+54:30:52.1	0.61	106	0.95	0.92	0.95	U	
GMRT160556+0550832	16:05:56.3	+55:08:39.2	0.75	130	1.15	0.90	1.15	U	
GMRT160557+0535142	16:05:57.8	+53:51:43.9	1.00	200	1.52	1.73	1.52	U	
GMRT160600+0545402	16:06:00.1	+54:54:08.8	0.62	918	327.65	1076.82	1076.82	109.7	
GMRT160602+0543937	16:06:02.2	+54:39:37.3	0.57	254	2.33	3.54	2.33	U	
GMRT160603+0534809	16:06:03.3	+53:48:15.2	1.04	372	60.61	243.76	243.76	81.0	
GMRT160603+0545930	16:06:03.6	+54:59:37.9	0.65	140	1.40	1.42	1.40	U	
GMRT160605+0542812	16:06:05.8	+54:28:13.9	0.60	187	36.93	63.43	63.43	44.0	
GMRT160606+0542857	16:06:06.4	+54:28:62.9	0.59	160	1.24	1.25	1.24	U	
GMRT160607+0551603	16:06:07.6	+55:16:04.2	0.82	178	16.07	29.24	29.24	19.9	
GMRT160607+0552132	16:06:07.7	+55:21:38.0	0.89	1080	461.76	652.37	652.37	92.2	
GMRT160609+0540322	16:06:09.9	+54:03:25.8	0.83	367	63.01	83.81	83.81	17.2	
GMRT160609+0542708	16:06:09.1	+54:27:11.9	0.60	120	1.45	2.71	2.71	6.4	
GMRT160611+0552737	16:06:11.9	+55:27:38.1	0.96	235	3.75	7.01	7.01	7.2	
GMRT160613+0543501	16:06:13.6	+54:35:07.1	0.55	131	0.92	1.58	0.92	U	
GMRT160613+0545322	16:06:13.4	+54:53:28.8	0.59	398	4.45	14.50	14.50	14.8	
GMRT160613+0550149	16:06:13.6	+55:01:50.4	0.65	200	2.70	7.90	7.90	22.4	
GMRT160616+0551345	16:06:16.4	+55:13:54.7	0.78	134	0.87	0.70	0.87	U	
GMRT160620+0552049	16:06:21.0	+55:20:49.6	0.86	564	5.14	12.39	12.39	11.9	
GMRT160621+0534334	16:06:21.4	+53:43:42.9	1.08	205	1.59	2.14	1.59	U	
GMRT160621+0545636	16:06:21.3	+54:56:37.9	0.59	202	4.10	22.44	22.44	48.5	
GMRT160622+0541332	16:06:22.4	+54:13:41.4	0.69	225	64.81	83.41	83.41	45.4	
GMRT160623+0540552	16:06:23.8	+54:05:59.0	0.77	797	245.63	327.72	327.72	36.9	
GMRT160623+0544129	16:06:23.3	+54:41:36.5	0.52	119	0.83	0.89	0.83	U	
GMRT160623+0551150	16:06:23.2	+55:11:56.3	0.74	124	1.42	1.31	1.42	U	
GMRT160624+0545437	16:06:24.5	+54:54:38.4	0.57	199	1.23	0.86	1.23	U	
GMRT160624+0552812	16:06:24.4	+55:28:20.6	0.95	196	2.64	3.05	2.64	U	
GMRT160626+0542113	16:06:26.9	+54:21:19.0	0.60	76	0.81	0.63	0.81	U	
GMRT160626+0544906	16:06:26.3	+54:49:07.6	0.54	178	2.27	6.09	6.09	15.0	
GMRT160627+0553401	16:06:28.0	+55:34:01.6	1.03	226	9.22	10.75	10.75	4.4	
GMRT160632+0542453	16:06:32.3	+54:24:56.8	0.56	77	0.61	0.48	0.61	U	
GMRT160633+0535612	16:06:34.0	+53:56:19.1	0.89	173	20.17	27.32	27.32	19.2	
GMRT160633+0540636	16:06:33.4	+54:06:45.4	0.75	410	2.93	2.39	2.93	U	
GMRT160633+0544322	16:06:33.6	+54:43:23.6	0.50	98	0.66	0.48	0.66	U	
GMRT160633+0545525	16:06:33.1	+54:55:31.1	0.56	146	0.92	1.28	0.92	U	
GMRT160634+0535344	16:06:34.8	+53:53:45.8	0.92	289	46.37	261.10	261.10	39.8	
GMRT160634+0543451	16:06:34.8	+54:34:57.9	0.50	160	10.58	70.94	70.94	108.5	
GMRT160634+0544542	16:06:34.4	+54:45:49.4	0.50	108	2.77	3.82	3.82	7.8	
GMRT160634+0551430	16:06:34.3	+55:14:32.2	0.76	140	1.49	1.71	1.49	U	
GMRT160636+0543247	16:06:36.4	+54:32:53.5	0.51	137	17.34	45.50	45.50	18.0	
GMRT160637+0552056	16:06:38.0	+55:20:63.6	0.84	214	4.58	5.53	4.58	U	
GMRT160638+0545918	16:06:38.5	+54:59:25.1	0.58	119	1.53	2.47	1.53	U	
GMRT160639+0542313	16:06:39.1	+54:23:13.2	0.56	77	1.14	1.40	1.14	U	
GMRT160642+0542636	16:06:42.3	+54:26:45.9	0.53	79	3.16	3.50	3.50	9.4	
GMRT160642+0542711	16:06:42.8	+54:27:17.4	0.52	81	0.79	0.68	0.79	U	
GMRT160644+0545341	16:06:44.0	+54:53:49.9	0.52	126	1.21	2.74	1.21	U	
GMRT160647+0541508	16:06:47.2	+54:15:16.6	0.62	102	5.50	10.74	10.74	34.2	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT160649+0535021	16:06:49.0	+53:50:25.6	0.95	152	2.01	2.44	2.01	U	
GMRT160650+0542511	16:06:50.7	+54:25:16.1	0.52	75	0.68	1.32	0.68	U	
GMRT160651+0541449	16:06:51.3	+54:14:49.1	0.62	103	1.50	4.90	4.90	24.4	
GMRT160655+0542753	16:06:55.2	+54:27:60.0	0.49	74	0.55	0.52	0.55	U	
GMRT160656+0541457	16:06:56.1	+54:14:63.0	0.61	91	1.14	1.11	1.14	U	
GMRT160657+0540321	16:06:57.9	+54:03:21.9	0.75	127	1.20	1.50	1.20	U	
GMRT160657+0550156	16:06:57.5	+55:01:57.0	0.57	102	1.35	4.32	4.32	21.7	
GMRT160657+0550350	16:06:57.8	+55:03:54.9	0.59	92	1.47	1.74	1.47	U	
GMRT160658+0544328	16:06:58.0	+54:43:30.0	0.44	91	13.00	22.90	22.90	35.7	
GMRT160659+0541135	16:06:59.6	+54:11:44.0	0.64	94	0.63	0.48	0.63	U	
GMRT160700+0541343	16:07:00.1	+54:13:48.0	0.62	84	0.65	0.42	0.65	U	
GMRT160700+0553807	16:07:00.7	+55:38:10.3	1.06	226	1.52	1.74	1.52	U	
GMRT160702+0534125	16:07:03.0	+53:41:26.1	1.07	238	19.79	29.37	29.37	23.9	
GMRT160702+0542348	16:07:02.6	+54:23:54.6	0.51	61	0.58	0.53	0.58	U	
GMRT160703+0541626	16:07:03.9	+54:16:27.1	0.58	82	0.53	0.60	0.53	U	
GMRT160703+0543414	16:07:03.2	+54:34:20.6	0.44	71	1.35	1.94	1.35	U	
GMRT160704+0553744	16:07:04.4	+55:37:47.9	1.05	200	3.81	4.42	3.81	U	
GMRT160705+0540952	16:07:05.9	+54:09:53.9	0.66	101	0.80	1.22	0.80	U	
GMRT160705+0545152	16:07:05.8	+54:51:53.2	0.46	91	0.90	1.43	0.90	U	
GMRT160705+0550512	16:07:05.5	+55:05:16.0	0.59	92	1.30	1.54	1.30	U	
GMRT160706+0541030	16:07:06.2	+54:10:38.6	0.65	95	0.65	0.54	0.65	U	
GMRT160707+0535654	16:07:08.0	+53:56:60.0	0.83	128	1.32	1.77	1.32	U	
GMRT160709+0542629	16:07:09.8	+54:26:35.4	0.47	63	0.49	0.50	0.49	U	
GMRT160709+0544920	16:07:09.6	+54:49:26.3	0.44	81	0.83	1.11	0.83	U	
GMRT160710+0540600	16:07:10.0	+54:06:03.4	0.70	119	1.53	2.07	2.07	4.9	
GMRT160712+0540609	16:07:12.6	+54:06:17.1	0.69	118	4.33	5.82	5.82	4.6	
GMRT160713+0542803	16:07:13.2	+54:28:12.3	0.45	68	1.49	2.35	2.35	6.8	
GMRT160713+0543025	16:07:13.1	+54:30:27.4	0.43	62	0.38	0.28	0.38	U	
GMRT160714+0541555	16:07:14.3	+54:15:61.8	0.57	71	0.86	0.96	0.86	U	
GMRT160714+0542149	16:07:14.3	+54:21:50.5	0.50	61	1.28	1.42	1.28	U	
GMRT160714+0544431	16:07:14.0	+54:44:34.4	0.41	68	0.52	0.45	0.52	U	
GMRT160714+0544856	16:07:14.3	+54:48:58.6	0.43	79	1.27	3.11	3.11	16.2	
GMRT160714+0544946	16:07:14.9	+54:49:50.6	0.43	75	0.51	0.28	0.51	U	
GMRT160715+0542659	16:07:15.2	+54:26:67.3	0.45	64	0.46	0.43	0.46	U	
GMRT160716+0544749	16:07:16.6	+54:47:49.7	0.41	78	0.58	0.46	0.58	U	
GMRT160716+0551839	16:07:16.8	+55:18:44.7	0.75	123	1.53	3.09	3.09	7.1	
GMRT160717+0550910	16:07:17.8	+55:09:16.2	0.62	91	0.94	0.91	0.94	U	
GMRT160718+0544403	16:07:19.0	+54:44:05.6	0.39	73	0.45	0.48	0.45	U	
GMRT160718+0552835	16:07:18.4	+55:28:41.7	0.90	155	1.24	1.02	1.24	U	
GMRT160720+0540547	16:07:20.8	+54:05:50.8	0.69	101	1.58	2.10	2.10	6.0	
GMRT160720+0541928	16:07:20.5	+54:19:37.8	0.52	63	0.49	0.47	0.49	U	
GMRT160721+0534636	16:07:21.8	+53:46:36.4	0.97	221	39.89	57.50	57.50	20.6	
GMRT160721+0544753	16:07:21.4	+54:47:59.4	0.40	88	1.93	2.14	1.93	U	
GMRT160721+0550355	16:07:21.7	+55:03:60.0	0.55	83	1.93	1.86	1.93	U	
GMRT160722+0542908	16:07:22.9	+54:29:13.7	0.42	57	0.63	0.67	0.63	U	
GMRT160723+0553056	16:07:23.1	+55:30:64.0	0.93	199	9.68	93.33	93.33	64.9	
GMRT160724+0541209	16:07:24.9	+54:12:11.6	0.60	87	1.54	1.56	1.54	U	
GMRT160724+0543742	16:07:24.7	+54:37:50.6	0.38	62	0.60	0.56	0.60	U	
GMRT160724+0544326	16:07:24.2	+54:43:32.5	0.38	68	0.65	0.60	0.65	U	
GMRT160724+0545750	16:07:24.2	+54:57:56.5	0.48	83	0.55	0.71	0.55	U	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT160724+0550128	16:07:24.3	+55:01:30.7	0.52	77	0.61	0.86	0.61	U	
GMRT160725+0535351	16:07:25.7	+53:53:53.1	0.86	132	4.08	4.66	4.66	9.4	
GMRT160725+0544720	16:07:25.7	+54:47:26.8	0.39	91	1.83	5.90	5.90	41.1	
GMRT160726+0553522	16:07:26.1	+55:35:30.6	0.99	181	16.32	20.83	20.83	6.2	
GMRT160727+0541833	16:07:27.6	+54:18:38.8	0.51	64	0.40	0.36	0.40	U	
GMRT160728+0541339	16:07:29.0	+54:13:43.9	0.57	75	0.74	0.68	0.74	U	
GMRT160728+0544134	16:07:28.9	+54:41:39.4	0.36	58	0.65	0.71	0.65	U	
GMRT160731+0542959	16:07:31.3	+54:29:59.3	0.40	49	0.65	0.69	0.65	U	
GMRT160731+0550248	16:07:31.3	+55:02:52.9	0.52	75	0.80	0.91	0.80	U	
GMRT160731+0551426	16:07:31.8	+55:14:26.1	0.67	102	0.70	0.59	0.70	U	
GMRT160732+0542220	16:07:32.1	+54:22:25.9	0.46	61	2.22	2.65	2.65	4.1	
GMRT160732+0542242	16:07:32.2	+54:22:51.7	0.46	65	2.04	3.11	3.11	13.4	
GMRT160732+0545106	16:07:32.1	+54:51:09.9	0.40	76	2.87	6.85	6.85	29.9	
GMRT160733+0541211	16:07:33.0	+54:12:14.6	0.58	79	2.67	3.39	3.39	10.0	
GMRT160733+0545639	16:07:33.4	+54:56:42.1	0.45	94	1.24	13.70	13.70	58.9	
GMRT160733+0551526	16:07:33.1	+55:15:33.0	0.69	101	1.22	1.22	1.22	U	
GMRT160734+0544213	16:07:34.4	+54:42:20.3	0.35	61	0.60	0.51	0.60	U	
GMRT160735+0541341	16:07:35.9	+54:13:45.5	0.56	77	1.26	1.49	1.26	U	
GMRT160735+0543321	16:07:35.3	+54:33:23.0	0.37	53	0.95	1.05	0.95	U	
GMRT160735+0550220	16:07:35.1	+55:02:24.1	0.51	78	0.66	0.69	0.66	U	
GMRT160735+0550730	16:07:35.4	+55:07:37.4	0.57	88	0.62	0.51	0.62	U	
GMRT160736+0535727	16:07:36.8	+53:57:36.7	0.79	105	1.45	3.74	3.74	14.1	
GMRT160736+0543533	16:07:36.7	+54:35:34.5	0.35	64	12.23	19.58	19.58	30.5	
GMRT160736+0551704	16:07:36.8	+55:17:07.5	0.71	100	0.94	0.87	0.94	U	
GMRT160737+0541043	16:07:37.3	+54:10:46.5	0.60	80	1.38	2.68	2.68	15.3	
GMRT160737+0544558	16:07:38.0	+54:45:58.7	0.36	63	3.11	4.21	4.21	14.5	
GMRT160740+0542156	16:07:40.4	+54:21:57.4	0.45	61	0.41	0.50	0.41	U	
GMRT160740+0542920	16:07:40.3	+54:29:28.8	0.38	52	0.91	1.03	0.91	U	
GMRT160740+0542944	16:07:40.4	+54:29:49.2	0.38	51	1.44	1.46	1.44	U	
GMRT160741+0543636	16:07:41.4	+54:36:40.2	0.34	58	0.49	0.47	0.49	U	
GMRT160741+0544910	16:07:41.9	+54:49:12.8	0.37	76	0.66	0.57	0.66	U	
GMRT160741+0550150	16:07:41.4	+55:01:59.6	0.49	73	1.63	1.61	1.63	U	
GMRT160744+0534317	16:07:44.6	+53:43:19.8	1.00	168	1.28	1.42	1.28	U	
GMRT160744+0544045	16:07:44.3	+54:40:54.2	0.33	59	0.48	0.34	0.48	U	
GMRT160744+0545018	16:07:44.8	+54:50:23.7	0.37	99	36.88	45.34	45.34	31.3	
GMRT160744+0545118	16:07:44.5	+54:51:18.5	0.38	87	0.61	0.72	0.61	U	
GMRT160744+0554232	16:07:44.5	+55:42:36.6	1.09	211	4.73	5.85	5.85	4.6	
GMRT160745+0534724	16:07:46.0	+53:47:29.2	0.94	140	2.84	4.09	4.09	9.4	
GMRT160745+0544650	16:07:45.7	+54:46:53.4	0.34	55	0.87	1.02	0.87	U	
GMRT160746+0534148	16:07:46.7	+53:41:51.6	1.02	175	1.13	0.97	1.13	U	
GMRT160746+0534833	16:07:46.8	+53:48:42.1	0.92	137	0.85	0.68	0.85	U	
GMRT160746+0541159	16:07:46.1	+54:11:68.3	0.57	71	4.93	7.38	7.38	11.5	
GMRT160746+0544101	16:07:46.4	+54:41:05.4	0.32	58	0.87	0.94	0.87	U	
GMRT160747+0542715	16:07:47.1	+54:27:24.2	0.38	58	0.36	0.26	0.36	U	
GMRT160747+0542802	16:07:47.6	+54:28:11.9	0.38	56	0.60	0.51	0.60	U	
GMRT160747+0550449	16:07:47.5	+55:04:52.4	0.52	76	1.06	1.31	1.06	U	
GMRT160748+0550853	16:07:48.2	+55:08:55.5	0.58	77	0.53	0.40	0.53	U	
GMRT160749+0542801	16:07:49.9	+54:28:08.1	0.37	56	0.40	0.44	0.40	U	
GMRT160751+0542855	16:07:51.6	+54:28:55.9	0.36	49	0.33	0.16	0.33	U	
GMRT160751+0551225	16:07:51.1	+55:12:25.4	0.62	81	1.28	1.49	1.28	U	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT160751+0553154	16:07:52.0	+55:31:62.2	0.92	142	1.49	1.30	1.49	U	
GMRT160752+0540832	16:07:52.2	+54:08:35.5	0.61	83	4.14	5.45	5.45	3.6	
GMRT160752+0542432	16:07:52.2	+54:24:39.6	0.40	60	0.58	0.85	0.58	U	
GMRT160752+0544231	16:07:52.5	+54:42:36.0	0.31	59	1.03	1.08	1.03	U	
GMRT160752+0552022	16:07:52.1	+55:20:31.8	0.74	100	0.77	0.75	0.77	U	
GMRT160753+0545516	16:07:53.6	+54:55:20.2	0.40	63	0.57	0.46	0.57	U	
GMRT160754+0543722	16:07:54.0	+54:37:26.7	0.31	58	2.55	2.99	2.99	3.7	
GMRT160755+0535712	16:07:55.2	+53:57:16.9	0.78	98	0.70	0.70	0.70	U	
GMRT160755+0543002	16:07:55.0	+54:30:06.8	0.34	53	0.34	0.52	0.34	U	
GMRT160756+0534404	16:07:56.4	+53:44:06.2	0.98	141	2.43	3.22	2.43	U	
GMRT160756+0540850	16:07:57.0	+54:08:52.9	0.60	83	0.57	0.57	0.57	U	
GMRT160756+0542755	16:07:56.7	+54:27:63.3	0.36	53	0.67	0.93	0.67	U	
GMRT160757+0534051	16:07:57.1	+53:40:57.9	1.03	173	1.18	1.15	1.18	U	
GMRT160757+0540253	16:07:57.7	+54:02:55.0	0.69	87	0.54	0.49	0.54	U	
GMRT160757+0542347	16:07:57.7	+54:23:53.3	0.40	59	0.56	0.70	0.56	U	
GMRT160757+0543825	16:07:57.4	+54:38:27.8	0.30	49	0.40	0.37	0.40	U	
GMRT160757+0544638	16:07:57.5	+54:46:44.7	0.31	70	4.56	5.30	5.30	4.5	
GMRT160757+0550244	16:07:57.3	+55:02:50.7	0.48	65	0.83	0.95	0.83	U	
GMRT160757+0551013	16:07:57.7	+55:10:14.0	0.58	82	2.85	8.33	8.33	15.2	
GMRT160758+0541630	16:07:58.0	+54:16:36.5	0.49	76	7.32	21.03	21.03	34.7	
GMRT160759+0535400	16:07:59.7	+53:54:04.1	0.82	102	1.17	1.39	1.17	U	
GMRT160759+0540432	16:07:59.0	+54:04:39.5	0.66	79	0.71	0.70	0.71	U	
GMRT160800+0542144	16:08:01.0	+54:21:52.6	0.42	63	3.54	9.02	9.02	34.9	
GMRT160801+0542025	16:08:01.9	+54:20:27.1	0.43	76	8.51	25.69	25.69	23.4	
GMRT160801+0542549	16:08:01.2	+54:25:50.6	0.37	57	0.35	0.20	0.35	U	
GMRT160801+0543640	16:08:01.8	+54:36:47.9	0.29	56	0.49	0.50	0.49	U	
GMRT160802+0541836	16:08:02.8	+54:18:37.3	0.46	62	0.53	0.54	0.53	U	
GMRT160802+0543946	16:08:02.0	+54:39:50.2	0.28	54	0.75	0.73	0.75	U	
GMRT160803+0540223	16:08:03.7	+54:02:30.6	0.69	92	5.67	6.98	6.98	10.8	
GMRT160803+0545259	16:08:03.9	+54:52:60.6	0.35	61	2.20	2.72	2.72	3.7	
GMRT160804+0543015	16:08:04.9	+54:30:20.1	0.32	50	0.50	0.53	0.50	U	
GMRT160805+0543749	16:08:05.3	+54:37:53.2	0.28	57	0.57	0.57	0.57	U	
GMRT160806+0543654	16:08:06.1	+54:36:61.1	0.28	57	0.40	0.35	0.40	U	
GMRT160807+0541507	16:08:08.0	+54:15:10.8	0.50	65	0.73	0.76	0.73	U	
GMRT160807+0541939	16:08:07.9	+54:19:45.2	0.43	63	0.51	0.51	0.51	U	
GMRT160807+0542652	16:08:07.7	+54:26:55.8	0.35	54	0.67	0.54	0.67	U	
GMRT160808+0541918	16:08:08.4	+54:19:18.9	0.44	60	0.43	0.44	0.43	U	
GMRT160808+0542752	16:08:08.6	+54:27:58.9	0.34	54	1.02	1.05	1.02	U	
GMRT160808+0545633	16:08:08.6	+54:56:36.9	0.38	58	1.84	2.56	2.56	16.6	
GMRT160808+0550056	16:08:08.6	+55:00:60.5	0.44	68	1.05	1.13	1.05	U	
GMRT160809+0542320	16:08:09.8	+54:23:29.8	0.38	50	0.41	0.34	0.41	U	
GMRT160809+0545233	16:08:09.6	+54:52:37.4	0.34	60	0.43	0.32	0.43	U	
GMRT160810+0544418	16:08:11.0	+54:44:19.2	0.27	52	0.70	0.65	0.70	U	
GMRT160810+0544652	16:08:10.0	+54:46:59.9	0.29	91	2.74	36.24	36.24	71.0	
GMRT160811+0534916	16:08:11.9	+53:49:20.0	0.89	118	0.96	0.77	0.96	U	
GMRT160811+0542343	16:08:11.5	+54:23:43.3	0.38	51	0.48	0.42	0.48	U	
GMRT160811+0545851	16:08:11.5	+54:58:52.6	0.41	62	0.80	0.90	0.80	U	
GMRT160812+0542536	16:08:12.0	+54:25:36.5	0.35	56	0.56	0.57	0.56	U	
GMRT160812+0543736	16:08:12.5	+54:37:37.9	0.26	59	2.00	2.33	2.33	9.4	
GMRT160812+0545208	16:08:12.3	+54:52:13.8	0.33	56	0.41	0.29	0.41	U	

Table 3 – continued

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT160812+0545523	16:08:12.5	+54:55:29.0	0.36	51	1.05	1.29	1.05	U	
GMRT160812+0550012	16:08:12.2	+55:00:21.4	0.42	62	2.12	1.99	2.12	U	
GMRT160814+0541939	16:08:14.0	+54:19:42.4	0.43	57	0.93	0.83	0.93	U	
GMRT160814+0542832	16:08:14.3	+54:28:32.7	0.32	57	1.86	2.72	2.72	7.7	
GMRT160814+0552659	16:08:15.0	+55:26:63.5	0.82	135	5.22	13.90	13.90	38.2	
GMRT160815+0540755	16:08:15.1	+54:07:59.5	0.59	77	0.84	0.81	0.84	U	
GMRT160815+0550352	16:08:15.0	+55:03:52.2	0.47	73	0.86	0.67	0.86	U	
GMRT160816+0543609	16:08:16.7	+54:36:14.8	0.26	49	0.40	0.31	0.40	U	
GMRT160816+0553159	16:08:16.4	+55:31:59.6	0.90	140	0.90	0.89	0.90	U	
GMRT160817+0551943	16:08:17.9	+55:19:43.3	0.71	93	2.27	2.73	2.27	U	
GMRT160817+0554253	16:08:17.9	+55:42:60.2	1.08	222	8.17	20.02	20.02	11.1	
GMRT160818+0552556	16:08:18.9	+55:25:65.5	0.80	121	1.22	1.08	1.22	U	
GMRT160819+0543811	16:08:19.4	+54:38:19.4	0.24	55	0.53	0.45	0.53	U	
GMRT160819+0545112	16:08:19.2	+54:51:13.4	0.31	53	0.45	0.39	0.45	U	
GMRT160821+0543013	16:08:21.6	+54:30:21.1	0.29	53	10.18	16.76	16.76	19.6	
GMRT160821+0545111	16:08:21.8	+54:51:16.1	0.30	52	0.35	0.40	0.35	U	
GMRT160821+0545835	16:08:21.9	+54:58:36.2	0.39	58	2.20	2.45	2.45	9.4	
GMRT160822+0542325	16:08:22.7	+54:23:25.0	0.36	50	0.74	0.92	0.74	U	
GMRT160822+0542837	16:08:22.6	+54:28:44.7	0.30	51	0.71	1.89	1.89	11.5	
GMRT160822+0543600	16:08:22.4	+54:36:03.9	0.24	55	0.66	0.65	0.66	U	
GMRT160822+0551036	16:08:22.4	+55:10:36.6	0.56	75	2.89	3.05	2.89	U	
GMRT160823+0534133	16:08:23.9	+53:41:37.6	1.00	181	1.83	1.83	1.83	U	
GMRT160823+0543927	16:08:23.9	+54:39:29.8	0.23	49	0.67	0.68	0.67	U	
GMRT160823+0545746	16:08:23.4	+54:57:48.7	0.38	55	0.43	0.41	0.43	U	
GMRT160824+0542026	16:08:24.9	+54:20:35.6	0.40	53	0.38	0.35	0.38	U	
GMRT160825+0542047	16:08:25.5	+54:20:47.9	0.39	50	0.68	0.52	0.68	U	
GMRT160825+0543806	16:08:25.4	+54:38:09.1	0.23	55	0.62	0.64	0.62	U	
GMRT160825+0551755	16:08:25.5	+55:17:59.4	0.67	83	2.74	7.54	7.54	26.8	
GMRT160826+0540711	16:08:26.3	+54:07:20.7	0.59	73	0.48	0.28	0.48	U	
GMRT160826+0542522	16:08:26.4	+54:25:26.5	0.33	46	0.38	0.57	0.38	U	
GMRT160827+0540350	16:08:28.0	+54:03:57.6	0.64	78	0.55	0.62	0.55	U	
GMRT160827+0543644	16:08:27.3	+54:36:48.8	0.23	55	0.45	0.32	0.45	U	
GMRT160828+0541027	16:08:28.6	+54:10:36.7	0.54	182	56.77	72.25	72.25	33.1	
GMRT160828+0544448	16:08:28.6	+54:44:54.3	0.23	48	1.68	2.56	2.56	5.7	
GMRT160828+0552714	16:08:28.2	+55:27:20.1	0.82	114	1.13	0.82	1.13	U	
GMRT160829+0544245	16:08:29.4	+54:42:52.8	0.22	43	0.34	0.29	0.34	U	
GMRT160829+0545430	16:08:30.0	+54:54:33.5	0.32	51	0.46	0.40	0.46	U	
GMRT160830+0534418	16:08:30.9	+53:44:18.0	0.95	188	4.94	69.82	69.82	43.5	
GMRT160831+0542230	16:08:31.4	+54:22:30.3	0.36	47	0.37	0.30	0.37	U	
GMRT160831+0550546	16:08:31.8	+55:05:48.8	0.48	63	0.64	1.05	1.05	15.2	
GMRT160831+0551220	16:08:31.8	+55:12:25.1	0.58	71	0.51	0.41	0.51	U	
GMRT160832+0535547	16:08:32.7	+53:55:50.5	0.77	94	0.58	0.55	0.58	U	
GMRT160832+0545015	16:08:32.5	+54:50:22.6	0.27	57	12.98	14.96	14.96	9.4	
GMRT160832+0552923	16:08:32.8	+55:29:28.4	0.85	113	1.00	1.22	1.00	U	
GMRT160833+0540919	16:08:33.3	+54:09:24.3	0.55	116	0.75	0.48	0.75	U	
GMRT160833+0542037	16:08:33.7	+54:20:44.0	0.38	47	0.37	0.34	0.37	U	
GMRT160833+0543457	16:08:33.4	+54:34:64.8	0.23	60	14.31	60.06	60.06	161.4	
GMRT160834+0553238	16:08:34.4	+55:32:39.7	0.90	159	25.34	30.93	30.93	22.5	
GMRT160835+0533818	16:08:35.8	+53:38:22.5	1.05	244	39.28	57.97	57.97	23.4	
GMRT160835+0535016	16:08:35.6	+53:50:20.8	0.85	107	0.96	1.42	0.96	U	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT160835+0535932	16:08:35.5	+53:59:40.0	0.70	86	4.06	6.26	6.26	12.2	
GMRT160835+0541630	16:08:35.5	+54:16:39.4	0.44	71	1.81	2.09	2.09	3.8	
GMRT160835+0544944	16:08:35.9	+54:49:49.6	0.26	55	0.70	0.83	0.70	U	
GMRT160836+0541415	16:08:36.4	+54:14:21.0	0.47	66	7.39	14.99	14.99	18.2	
GMRT160836+0551414	16:08:36.5	+55:14:20.1	0.60	80	2.44	2.94	2.94	9.4	
GMRT160837+0541525	16:08:37.3	+54:15:29.6	0.46	68	0.85	0.83	0.85	U	
GMRT160837+0543738	16:08:37.1	+54:37:44.9	0.20	47	1.12	1.25	1.12	U	
GMRT160837+0552351	16:08:37.8	+55:23:51.9	0.76	107	0.93	1.18	0.93	U	
GMRT160838+0535733	16:08:38.2	+53:57:42.7	0.73	91	1.05	1.12	1.05	U	
GMRT160838+0541334	16:08:38.6	+54:13:43.4	0.48	67	0.85	0.88	0.85	U	
GMRT160839+0541653	16:08:39.1	+54:16:54.0	0.43	66	6.58	10.10	10.10	19.2	
GMRT160839+0542746	16:08:39.1	+54:27:55.5	0.28	54	8.65	10.42	10.42	14.2	
GMRT160839+0544633	16:08:40.0	+54:46:34.5	0.22	48	0.74	0.61	0.74	U	
GMRT160839+0545518	16:08:39.9	+54:55:18.3	0.32	50	0.41	0.42	0.41	U	
GMRT160839+0550359	16:08:39.5	+55:03:66.0	0.44	62	0.50	0.48	0.50	U	
GMRT160839+0550422	16:08:39.7	+55:04:27.5	0.45	62	0.50	0.38	0.50	U	
GMRT160839+0552326	16:08:39.9	+55:23:29.4	0.75	107	1.40	1.59	1.40	U	
GMRT160840+0542147	16:08:40.5	+54:21:53.5	0.36	47	0.74	0.88	0.74	U	
GMRT160841+0543240	16:08:41.5	+54:32:47.5	0.23	46	0.41	0.72	0.72	16.2	
GMRT160841+0543959	16:08:41.8	+54:39:62.2	0.19	47	0.37	0.30	0.37	U	
GMRT160841+0544248	16:08:41.1	+54:42:55.5	0.20	44	0.35	0.29	0.35	U	
GMRT160841+0545413	16:08:41.4	+54:54:15.2	0.30	54	0.58	3.60	3.60	37.6	
GMRT160844+0550814	16:08:44.5	+55:08:19.7	0.50	61	0.45	0.65	0.45	U	
GMRT160844+0551816	16:08:44.1	+55:18:20.3	0.66	83	1.34	1.22	1.34	U	
GMRT160845+0543928	16:08:45.7	+54:39:35.7	0.18	47	0.48	0.53	0.48	U	
GMRT160845+0545032	16:08:45.2	+54:50:38.8	0.25	52	0.59	0.48	0.59	U	
GMRT160845+0550504	16:08:45.2	+55:05:04.3	0.45	60	1.22	1.15	1.22	U	
GMRT160846+0542546	16:08:46.5	+54:25:55.9	0.30	46	0.31	0.28	0.31	U	
GMRT160847+0540114	16:08:47.3	+54:01:20.0	0.67	80	1.75	2.76	2.76	5.6	
GMRT160847+0543648	16:08:47.2	+54:36:52.9	0.18	45	0.57	0.48	0.57	U	
GMRT160848+0540516	16:08:48.1	+54:05:22.4	0.60	105	19.25	64.34	64.34	52.0	
GMRT160848+0541711	16:08:48.3	+54:17:17.1	0.42	55	0.58	0.55	0.58	U	
GMRT160848+0543032	16:08:48.7	+54:30:39.7	0.23	42	0.72	0.85	0.72	U	
GMRT160848+0544839	16:08:48.7	+54:48:47.0	0.22	46	0.36	0.25	0.36	U	
GMRT160848+0544950	16:08:48.6	+54:49:50.9	0.24	49	0.42	0.48	0.42	U	
GMRT160848+0545147	16:08:48.8	+54:51:56.2	0.26	48	1.64	2.16	2.16	3.3	
GMRT160849+0545439	16:08:49.2	+54:54:43.0	0.30	56	0.48	0.49	0.48	U	
GMRT160850+0544418	16:08:50.3	+54:44:27.9	0.18	45	1.93	2.12	1.93	U	
GMRT160850+0545348	16:08:50.4	+54:53:49.1	0.28	58	2.04	6.21	6.21	15.9	
GMRT160851+0552610	16:08:51.6	+55:26:18.3	0.79	113	1.51	1.74	1.51	U	
GMRT160852+0544228	16:08:52.8	+54:42:30.9	0.17	45	0.69	0.93	0.69	U	
GMRT160853+0543259	16:08:53.4	+54:32:63.6	0.20	45	0.44	0.55	0.44	U	
GMRT160854+0533543	16:08:54.9	+53:35:47.0	1.08	242	3.74	10.47	10.47	15.4	
GMRT160854+0544303	16:08:54.1	+54:43:03.0	0.17	46	0.40	0.29	0.40	U	
GMRT160854+0544730	16:08:54.2	+54:47:38.2	0.20	44	1.13	1.56	1.13	U	
GMRT160855+0542536	16:08:55.6	+54:25:44.3	0.29	48	0.50	0.38	0.50	U	
GMRT160855+0545410	16:08:55.7	+54:54:10.8	0.28	61	0.67	0.65	0.67	U	
GMRT160856+0533444	16:08:56.9	+53:34:44.5	1.10	256	7.13	22.70	22.70	22.1	
GMRT160856+0541649	16:08:56.4	+54:16:55.7	0.42	53	0.53	0.63	0.53	U	
GMRT160856+0550108	16:08:56.1	+55:01:15.9	0.38	53	0.53	0.37	0.53	U	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT160857+0541026	16:08:57.9	+54:10:27.2	0.52	63	0.89	0.89	0.89	U	
GMRT160858+0541815	16:08:58.3	+54:18:16.8	0.39	53	4.70	5.48	5.48	9.4	
GMRT160858+0543941	16:08:58.3	+54:39:46.6	0.15	46	2.96	3.31	3.31	4.7	
GMRT160859+0540226	16:08:59.1	+54:02:32.5	0.64	83	5.15	5.97	5.97	9.4	
GMRT160900+0552839	16:09:00.9	+55:28:42.0	0.82	116	1.53	1.86	1.53	U	
GMRT160901+0533534	16:09:01.4	+53:35:37.0	1.08	260	1.64	3.79	1.64	U	
GMRT160901+0541805	16:09:01.5	+54:18:08.0	0.39	51	0.70	0.81	0.70	U	
GMRT160901+0550313	16:09:01.9	+55:03:13.4	0.41	55	0.81	0.76	0.81	U	
GMRT160902+0540232	16:09:02.5	+54:02:38.0	0.64	75	0.91	0.84	0.91	U	
GMRT160902+0540705	16:09:02.9	+54:07:08.0	0.57	65	0.57	0.78	0.57	U	
GMRT160902+0541844	16:09:02.8	+54:18:53.1	0.38	50	0.59	0.47	0.59	U	
GMRT160903+0551632	16:09:03.2	+55:16:40.9	0.62	75	0.68	0.57	0.68	U	
GMRT160904+0541413	16:09:04.5	+54:14:20.9	0.45	55	0.50	0.61	0.50	U	
GMRT160904+0541720	16:09:04.9	+54:17:25.4	0.40	51	2.69	3.50	3.50	7.2	
GMRT160904+0543925	16:09:04.9	+54:39:28.3	0.13	44	0.38	0.32	0.38	U	
GMRT160904+0545255	16:09:04.6	+54:52:64.0	0.25	55	15.63	18.97	18.97	19.4	
GMRT160904+0550954	16:09:04.4	+55:09:64.0	0.52	66	0.62	0.96	0.62	U	
GMRT160905+0544633	16:09:05.8	+54:46:37.3	0.17	42	0.30	0.20	0.30	U	
GMRT160905+0551249	16:09:05.3	+55:12:49.1	0.56	68	0.56	0.58	0.56	U	
GMRT160906+0541617	16:09:06.4	+54:16:23.2	0.42	53	0.48	0.38	0.48	U	
GMRT160906+0543400	16:09:06.6	+54:34:08.2	0.16	42	2.15	2.46	2.46	9.4	
GMRT160906+0543519	16:09:06.7	+54:35:23.7	0.15	42	0.28	0.24	0.28	U	
GMRT160906+0551844	16:09:06.7	+55:18:53.9	0.66	92	1.48	1.46	1.48	U	
GMRT160907+0542135	16:09:07.2	+54:21:35.8	0.33	49	0.64	0.58	0.64	U	
GMRT160907+0552425	16:09:07.7	+55:24:31.1	0.75	112	1.92	2.21	1.92	U	
GMRT160908+0533558	16:09:09.0	+53:35:60.2	1.07	249	18.11	24.57	24.57	13.1	
GMRT160908+0535422	16:09:08.8	+53:54:28.9	0.77	299	58.23	300.57	300.57	94.6	
GMRT160908+0552238	16:09:08.5	+55:22:45.7	0.72	96	1.96	1.73	1.96	U	
GMRT160909+0542609	16:09:09.1	+54:26:14.2	0.26	44	0.35	0.34	0.35	U	
GMRT160909+0544309	16:09:09.7	+54:43:10.4	0.13	47	0.65	0.80	0.65	U	
GMRT160910+0550210	16:09:10.8	+55:02:17.2	0.39	57	0.57	0.63	0.57	U	
GMRT160910+0552629	16:09:10.5	+55:26:34.3	0.78	124	16.42	25.06	25.06	20.1	
GMRT160911+0545409	16:09:11.4	+54:54:14.2	0.26	47	0.33	0.30	0.33	U	
GMRT160911+0551138	16:09:11.7	+55:11:46.1	0.54	63	0.74	0.62	0.74	U	
GMRT160912+0541829	16:09:12.9	+54:18:32.1	0.38	49	0.77	0.99	0.77	U	
GMRT160912+0550651	16:09:12.3	+55:06:59.5	0.46	61	0.72	0.77	0.72	U	
GMRT160913+0540506	16:09:13.2	+54:05:14.3	0.59	63	0.80	0.80	0.80	U	
GMRT160913+0542318	16:09:13.5	+54:23:20.3	0.30	50	0.43	0.48	0.43	U	
GMRT160913+0544035	16:09:13.6	+54:40:39.2	0.11	47	0.29	0.19	0.29	U	
GMRT160913+0553353	16:09:13.2	+55:33:56.9	0.91	145	2.96	3.03	2.96	U	
GMRT160914+0543038	16:09:14.9	+54:30:45.6	0.19	46	0.29	0.31	0.29	U	
GMRT160914+0544829	16:09:14.2	+54:48:34.0	0.18	40	0.35	0.33	0.35	U	
GMRT160915+0541348	16:09:15.6	+54:13:48.6	0.45	57	3.35	3.86	3.86	9.4	
GMRT160915+0542741	16:09:15.9	+54:27:42.9	0.23	44	1.00	1.34	1.00	U	
GMRT160915+0543652	16:09:15.7	+54:36:56.8	0.12	43	0.35	0.27	0.35	U	
GMRT160916+0544132	16:09:16.8	+54:41:37.0	0.11	46	0.39	0.45	0.39	U	
GMRT160917+0543523	16:09:17.7	+54:35:30.4	0.13	41	0.39	0.23	0.39	U	
GMRT160917+0554049	16:09:17.3	+55:40:50.9	1.02	181	4.76	6.06	6.06	4.1	
GMRT160918+0534818	16:09:18.9	+53:48:26.1	0.87	120	0.92	0.69	0.92	U	
GMRT160918+0545541	16:09:19.0	+54:55:49.2	0.28	48	0.55	0.56	0.55	U	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT160918+0550719	16:09:18.6	+55:07:28.8	0.47	61	0.40	0.46	0.40	U	
GMRT160918+0552114	16:09:18.8	+55:21:18.1	0.69	98	2.67	3.06	3.06	4.3	
GMRT160919+0542237	16:09:19.1	+54:22:41.0	0.31	49	0.97	1.02	0.97	U	
GMRT160919+0544004	16:09:19.2	+54:40:07.2	0.10	46	0.48	0.41	0.48	U	
GMRT160919+0544033	16:09:19.6	+54:40:35.1	0.10	45	0.94	0.77	0.94	U	
GMRT160919+0545957	16:09:19.2	+54:59:58.6	0.35	50	0.34	0.32	0.34	U	
GMRT160920+0533646	16:09:20.6	+53:36:50.8	1.06	229	15.46	40.04	40.04	24.9	
GMRT160920+0542256	16:09:20.1	+54:22:62.8	0.30	48	0.33	0.35	0.33	U	
GMRT160920+0544342	16:09:20.2	+54:43:47.6	0.11	45	1.67	3.48	3.48	20.3	
GMRT160920+0544405	16:09:20.8	+54:44:07.6	0.12	45	0.29	0.20	0.29	U	
GMRT160921+0535432	16:09:21.6	+53:54:36.6	0.76	242	4.35	23.88	23.88	53.1	
GMRT160921+0545107	16:09:21.6	+54:51:09.6	0.21	47	0.42	0.43	0.42	U	
GMRT160921+0550058	16:09:21.5	+55:00:67.1	0.36	54	0.60	0.47	0.60	U	
GMRT160922+0541907	16:09:22.8	+54:19:13.1	0.36	50	0.32	0.24	0.32	U	
GMRT160922+0551041	16:09:22.6	+55:10:46.8	0.52	64	0.58	0.41	0.58	U	
GMRT160923+0544318	16:09:23.4	+54:43:25.7	0.10	51	2.55	3.18	3.18	13.6	
GMRT160923+0551058	16:09:23.1	+55:10:60.9	0.52	66	0.44	0.32	0.44	U	
GMRT160923+0554255	16:09:23.3	+55:42:64.5	1.05	221	20.64	48.34	48.34	40.1	
GMRT160925+0534125	16:09:25.8	+53:41:25.5	0.98	155	1.22	1.28	1.22	U	
GMRT160925+0542159	16:09:25.6	+54:21:67.2	0.31	46	0.36	0.27	0.36	U	
GMRT160925+0552044	16:09:25.8	+55:20:49.4	0.68	86	1.38	2.20	1.38	U	
GMRT160926+0541047	16:09:27.0	+54:10:51.4	0.49	63	2.48	3.28	3.28	3.9	
GMRT160926+0542029	16:09:26.7	+54:20:38.5	0.33	58	1.00	2.23	2.23	12.6	
GMRT160926+0551308	16:09:26.5	+55:13:11.8	0.56	68	1.66	1.58	1.66	U	
GMRT160926+0551639	16:09:27.0	+55:16:46.0	0.62	80	1.07	0.88	1.07	U	
GMRT160927+0535536	16:09:27.7	+53:55:39.1	0.74	131	1.79	2.47	1.79	U	
GMRT160927+0544859	16:09:27.8	+54:48:59.9	0.17	44	0.71	0.70	0.71	U	
GMRT160928+0540840	16:09:28.8	+54:08:41.9	0.53	58	0.73	0.79	0.73	U	
GMRT160928+0541946	16:09:28.4	+54:19:50.6	0.35	63	0.70	0.97	0.70	U	
GMRT160928+0542059	16:09:28.4	+54:20:62.7	0.33	55	0.52	0.53	0.52	U	
GMRT160928+0542830	16:09:28.2	+54:28:31.8	0.21	49	0.89	0.90	0.89	U	
GMRT160928+0551829	16:09:28.7	+55:18:36.7	0.65	85	1.37	2.63	2.63	6.9	
GMRT160928+0553317	16:09:28.9	+55:33:22.0	0.89	133	0.82	0.48	0.82	U	
GMRT160929+0542350	16:09:30.0	+54:23:58.4	0.28	45	0.51	0.40	0.51	U	
GMRT160929+0542938	16:09:29.5	+54:29:46.0	0.19	42	0.52	0.60	0.52	U	
GMRT160929+0553641	16:09:29.3	+55:36:46.5	0.95	152	4.49	5.14	4.49	U	
GMRT160930+0535530	16:09:30.7	+53:55:39.2	0.74	130	5.91	7.05	7.05	4.8	
GMRT160930+0541438	16:09:30.9	+54:14:39.3	0.43	56	0.39	0.32	0.39	U	
GMRT160930+0543940	16:09:30.7	+54:39:49.4	0.07	42	0.54	0.64	0.54	U	
GMRT160930+0544149	16:09:30.6	+54:41:58.3	0.08	43	0.50	0.62	0.50	U	
GMRT160930+0544910	16:09:30.6	+54:49:13.8	0.17	45	0.72	0.58	0.72	U	
GMRT160931+0535951	16:09:32.0	+53:59:51.2	0.67	82	0.57	0.58	0.57	U	
GMRT160931+0540803	16:09:31.1	+54:08:05.5	0.54	59	0.57	0.52	0.57	U	
GMRT160931+0541823	16:09:31.7	+54:18:31.4	0.37	56	2.46	2.86	2.86	4.6	
GMRT160931+0541915	16:09:31.6	+54:19:19.3	0.35	58	3.07	5.93	5.93	9.3	
GMRT160931+0550239	16:09:31.7	+55:02:48.3	0.38	57	1.06	1.03	1.06	U	
GMRT160931+0552503	16:09:31.4	+55:25:07.1	0.75	155	15.32	113.74	113.74	68.6	
GMRT160932+0534554	16:09:32.2	+53:45:61.5	0.90	125	0.79	0.80	0.79	U	
GMRT160932+0542028	16:09:32.7	+54:20:33.7	0.33	63	1.27	6.65	6.65	33.3	
GMRT160932+0551126	16:09:32.7	+55:11:31.5	0.53	66	0.70	0.81	0.70	U	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size '' (9)	Notes (10)
GMRT160933+0535718	16:09:33.9	+53:57:24.9	0.71	99	0.76	0.65	0.76	U	
GMRT160933+0540140	16:09:33.2	+54:01:43.3	0.64	76	0.80	0.94	0.80	U	
GMRT160933+0545215	16:09:33.6	+54:52:17.5	0.21	45	0.38	0.36	0.38	U	
GMRT160933+0551947	16:09:33.1	+55:19:50.6	0.67	83	1.23	2.05	2.05	5.4	
GMRT160934+0535217	16:09:34.8	+53:52:25.6	0.80	108	0.98	1.21	0.98	U	
GMRT160934+0540417	16:09:34.3	+54:04:23.2	0.60	66	0.45	0.34	0.45	U	
GMRT160934+0542506	16:09:34.4	+54:25:15.4	0.26	42	0.42	0.43	0.42	U	
GMRT160934+0551315	16:09:34.6	+55:13:22.8	0.56	70	0.64	0.58	0.64	U	
GMRT160935+0543102	16:09:35.5	+54:31:05.7	0.16	42	0.29	0.28	0.29	U	
GMRT160935+0550853	16:09:35.7	+55:08:62.7	0.49	61	0.48	0.55	0.48	U	
GMRT160936+0541945	16:09:36.5	+54:19:51.9	0.34	58	0.87	2.44	2.44	16.3	
GMRT160936+0542644	16:09:36.9	+54:26:49.7	0.23	42	0.28	0.24	0.28	U	
GMRT160936+0551810	16:09:36.5	+55:18:18.5	0.64	83	0.67	0.76	0.67	U	
GMRT160936+0552655	16:09:36.6	+55:26:64.2	0.78	161	18.02	63.26	63.26	50.0	
GMRT160937+0541256	16:09:37.7	+54:12:59.1	0.45	54	1.76	2.23	2.23	4.1	
GMRT160937+0541831	16:09:37.4	+54:18:39.0	0.36	53	0.39	0.38	0.39	U	
GMRT160937+0544029	16:09:37.5	+54:40:32.0	0.05	43	0.71	0.64	0.71	U	
GMRT160937+0544836	16:09:37.2	+54:48:39.8	0.15	43	0.34	0.19	0.34	U	
GMRT160937+0550640	16:09:37.5	+55:06:45.5	0.45	64	0.50	0.65	0.50	U	
GMRT160938+0542016	16:09:38.1	+54:20:19.5	0.33	56	0.42	0.42	0.42	U	
GMRT160939+0542029	16:09:39.4	+54:20:33.5	0.33	53	0.39	0.31	0.39	U	
GMRT160939+0543218	16:09:39.9	+54:32:24.3	0.14	41	0.40	0.39	0.40	U	
GMRT160939+0543601	16:09:39.4	+54:36:09.4	0.08	44	0.96	1.30	1.30	5.1	
GMRT160940+0542609	16:09:40.5	+54:26:17.3	0.24	43	0.37	0.32	0.37	U	
GMRT160940+0543731	16:09:40.7	+54:37:38.9	0.06	50	0.34	0.44	0.34	U	
GMRT160940+0544732	16:09:40.4	+54:47:33.8	0.13	41	0.43	0.62	0.62	10.3	
GMRT160942+0541504	16:09:42.9	+54:15:11.4	0.42	53	0.79	0.80	0.79	U	
GMRT160942+0552114	16:09:42.7	+55:21:21.3	0.69	103	1.67	1.61	1.67	U	
GMRT160943+0535737	16:09:43.8	+53:57:37.1	0.71	106	18.41	33.84	33.84	30.9	
GMRT160943+0543640	16:09:43.5	+54:36:41.1	0.07	49	0.78	0.75	0.78	U	
GMRT160944+0541651	16:09:44.1	+54:16:57.2	0.39	53	0.62	0.68	0.62	U	
GMRT160944+0543744	16:09:44.4	+54:37:52.5	0.05	50	10.14	19.32	19.32	16.4	
GMRT160944+0552120	16:09:44.6	+55:21:26.9	0.69	106	1.03	1.35	1.03	U	
GMRT160945+0534939	16:09:45.8	+53:49:47.0	0.84	119	1.01	1.32	1.01	U	
GMRT160945+0545153	16:09:45.4	+54:51:55.0	0.20	50	0.35	0.22	0.35	U	
GMRT160946+0541904	16:09:46.8	+54:19:06.3	0.35	53	0.56	0.71	0.56	U	
GMRT160946+0542123	16:09:46.6	+54:21:30.1	0.31	45	0.41	0.75	0.41	U	
GMRT160946+0542421	16:09:46.8	+54:24:24.4	0.26	46	0.43	0.38	0.43	U	
GMRT160946+0542829	16:09:46.6	+54:28:36.5	0.19	44	0.46	0.40	0.46	U	
GMRT160946+0544204	16:09:46.8	+54:42:08.5	0.05	52	13.82	16.36	16.36	24.0	
GMRT160946+0550553	16:09:46.9	+55:05:62.6	0.43	55	0.54	0.48	0.54	U	
GMRT160947+0533506	16:09:47.4	+53:35:10.4	1.08	203	1.32	1.10	1.32	U	
GMRT160947+0541926	16:09:47.6	+54:19:26.5	0.34	51	0.52	0.73	0.52	U	
GMRT160948+0540857	16:09:48.3	+54:08:61.0	0.52	65	1.37	1.53	1.37	U	
GMRT160948+0543608	16:09:48.4	+54:36:13.9	0.07	43	1.08	1.17	1.08	U	
GMRT160948+0544302	16:09:48.6	+54:43:04.3	0.06	47	0.29	0.22	0.29	U	
GMRT160948+0545204	16:09:48.5	+54:52:09.9	0.20	48	1.67	1.76	1.67	U	
GMRT160948+0545507	16:09:48.4	+54:55:16.4	0.25	45	0.29	0.19	0.29	U	
GMRT160948+0545908	16:09:48.8	+54:59:11.8	0.32	67	0.89	0.66	0.89	U	
GMRT160948+0551646	16:09:49.0	+55:16:55.1	0.61	109	2.67	17.40	17.40	57.4	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT160949+0540826	16:09:49.7	+54:08:28.3	0.53	70	4.87	8.23	8.23	21.3	
GMRT160949+0542744	16:09:49.6	+54:27:47.3	0.21	42	0.43	0.31	0.43	U	
GMRT160949+0543809	16:09:49.3	+54:38:10.0	0.04	46	0.36	0.31	0.36	U	
GMRT160949+0550347	16:09:49.8	+55:03:50.7	0.40	64	1.14	1.13	1.14	U	
GMRT160950+0541811	16:09:50.4	+54:18:15.9	0.36	54	0.36	0.30	0.36	U	
GMRT160950+0551256	16:09:50.8	+55:12:64.0	0.55	73	0.60	0.64	0.60	U	
GMRT160951+0551801	16:09:51.5	+55:18:06.8	0.63	95	0.61	0.52	0.61	U	
GMRT160952+0550700	16:09:52.5	+55:07:08.7	0.45	59	3.07	4.47	4.47	5.7	
GMRT160953+0534446	16:09:53.5	+53:44:47.0	0.92	195	33.00	46.06	46.06	32.4	
GMRT160953+0542219	16:09:53.7	+54:22:21.1	0.30	44	0.63	0.68	0.63	U	
GMRT160953+0542314	16:09:53.2	+54:23:21.9	0.28	48	0.36	0.30	0.36	U	
GMRT160953+0545932	16:09:53.1	+54:59:33.3	0.33	74	5.35	23.03	23.03	30.4	
GMRT160954+0541823	16:09:54.5	+54:18:23.3	0.36	55	0.42	0.40	0.42	U	
GMRT160954+0550352	16:09:54.7	+55:03:60.0	0.40	66	1.69	4.20	4.20	12.6	
GMRT160955+0544243	16:09:55.6	+54:42:47.2	0.05	46	0.43	0.50	0.43	U	
GMRT160956+0545239	16:09:56.0	+54:52:41.5	0.21	45	0.57	0.85	0.85	7.4	
GMRT160956+0552822	16:09:56.0	+55:28:26.0	0.81	119	8.17	10.84	10.84	4.1	
GMRT160958+0542044	16:09:58.8	+54:20:48.0	0.32	45	0.40	0.48	0.40	U	
GMRT160959+0534917	16:09:59.1	+53:49:22.5	0.85	113	6.97	8.87	8.87	10.8	
GMRT160959+0540435	16:09:59.6	+54:04:43.3	0.59	59	0.94	1.25	0.94	U	
GMRT160959+0543641	16:09:59.7	+54:36:46.1	0.06	45	0.69	1.21	0.69	U	
GMRT160959+0543913	16:09:59.3	+54:39:21.6	0.01	42	0.49	0.42	0.49	U	
GMRT160959+0550023	16:09:59.1	+55:00:32.6	0.34	85	29.07	84.15	84.15	45.8	
GMRT160959+0552350	16:09:59.2	+55:23:52.7	0.73	103	0.87	0.92	0.87	U	
GMRT161000+0535240	16:10:00.9	+53:52:47.9	0.79	104	3.68	5.67	5.67	11.6	
GMRT161000+0540202	16:10:00.3	+54:02:07.8	0.63	63	0.52	0.42	0.52	U	
GMRT161000+0542654	16:10:00.7	+54:26:58.7	0.22	43	0.35	0.33	0.35	U	
GMRT161000+0550354	16:10:00.6	+55:03:56.2	0.40	61	0.44	1.10	1.10	19.7	
GMRT161000+0551442	16:10:00.7	+55:14:45.1	0.58	74	4.34	4.32	4.34	U	
GMRT161000+0551709	16:10:00.3	+55:17:17.2	0.62	85	0.61	0.38	0.61	U	
GMRT161001+0543021	16:10:01.5	+54:30:23.9	0.16	44	0.28	0.24	0.28	U	
GMRT161002+0541634	16:10:02.6	+54:16:39.0	0.39	85	27.65	44.99	44.99	32.5	
GMRT161002+0543733	16:10:02.6	+54:37:38.4	0.04	42	0.30	0.24	0.30	U	
GMRT161002+0544312	16:10:02.0	+54:43:22.0	0.05	45	0.38	0.37	0.38	U	
GMRT161003+0542508	16:10:03.0	+54:25:09.5	0.25	45	0.31	0.18	0.31	U	
GMRT161003+0543624	16:10:03.3	+54:36:32.5	0.06	44	0.47	0.49	0.47	U	
GMRT161003+0545643	16:10:03.6	+54:56:50.1	0.28	47	0.47	0.40	0.47	U	
GMRT161004+0541112	16:10:05.0	+54:11:13.3	0.48	53	0.40	0.31	0.40	U	
GMRT161004+0545220	16:10:04.4	+54:52:24.8	0.21	42	0.49	0.44	0.49	U	
GMRT161004+0545519	16:10:05.0	+54:55:24.8	0.26	44	0.34	0.42	0.34	U	
GMRT161005+0541027	16:10:05.6	+54:10:29.9	0.49	60	0.70	3.72	3.72	24.8	
GMRT161005+0543504	16:10:05.5	+54:35:06.6	0.08	43	0.40	0.46	0.40	U	
GMRT161005+0545816	16:10:05.8	+54:58:23.3	0.30	52	0.41	0.51	0.41	U	
GMRT161005+0550942	16:10:05.5	+55:09:48.6	0.50	69	1.81	2.10	1.81	U	
GMRT161005+0552229	16:10:05.3	+55:22:29.1	0.71	102	1.30	1.33	1.30	U	
GMRT161006+0540058	16:10:06.4	+54:00:59.2	0.65	71	0.45	0.51	0.45	U	
GMRT161006+0540906	16:10:06.3	+54:09:09.8	0.52	61	0.52	0.41	0.52	U	
GMRT161006+0541825	16:10:06.5	+54:18:32.2	0.36	55	0.82	0.83	0.82	U	
GMRT161007+0534431	16:10:07.0	+53:44:37.7	0.92	150	1.00	0.72	1.00	U	
GMRT161007+0544056	16:10:07.2	+54:40:63.4	0.02	42	0.27	0.28	0.27	U	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT161007+0544140	16:10:07.6	+54:41:40.1	0.03	41	0.57	0.75	0.57	U	
GMRT161007+0545033	16:10:07.9	+54:50:39.6	0.18	48	0.44	0.33	0.44	U	
GMRT161008+0535027	16:10:08.8	+53:50:27.7	0.83	115	0.77	0.58	0.77	U	
GMRT161008+0540753	16:10:08.7	+54:07:57.1	0.54	66	4.14	16.77	16.77	38.7	
GMRT161008+0553611	16:10:08.0	+55:36:14.8	0.94	147	1.26	1.48	1.26	U	
GMRT161009+0543241	16:10:09.8	+54:32:46.5	0.12	42	0.62	0.56	0.62	U	
GMRT161010+0542801	16:10:11.0	+54:28:02.4	0.20	44	0.34	0.24	0.34	U	
GMRT161010+0551658	16:10:10.3	+55:16:66.1	0.62	78	0.80	0.69	0.80	U	
GMRT161011+0533541	16:10:12.0	+53:35:44.7	1.07	199	1.30	0.93	1.30	U	
GMRT161011+0541938	16:10:12.0	+54:19:40.6	0.34	49	0.38	0.27	0.38	U	
GMRT161012+0543527	16:10:12.9	+54:35:35.7	0.08	42	5.49	5.72	5.72	9.4	
GMRT161012+0544420	16:10:12.3	+54:44:27.8	0.08	40	0.46	0.46	0.46	U	
GMRT161013+0540421	16:10:13.4	+54:04:30.6	0.59	62	4.77	6.22	6.22	11.7	
GMRT161013+0544059	16:10:13.0	+54:40:66.8	0.04	40	0.30	0.17	0.30	U	
GMRT161013+0544235	16:10:13.9	+54:42:38.9	0.05	41	0.28	0.22	0.28	U	
GMRT161013+0544924	16:10:13.4	+54:49:33.1	0.16	55	1.65	10.09	10.09	93.5	
GMRT161013+0550643	16:10:13.8	+55:06:51.8	0.45	65	1.04	1.36	1.04	U	
GMRT161013+0552214	16:10:13.6	+55:22:18.6	0.70	99	1.52	2.15	2.15	10.1	
GMRT161014+0534351	16:10:14.5	+53:43:60.1	0.94	151	0.91	0.97	0.91	U	
GMRT161014+0535706	16:10:14.9	+53:57:14.4	0.72	77	0.93	0.90	0.93	U	
GMRT161014+0540011	16:10:14.3	+54:00:13.3	0.66	72	0.57	0.45	0.57	U	
GMRT161014+0543033	16:10:14.4	+54:30:36.9	0.16	50	0.41	0.45	0.41	U	
GMRT161014+0550822	16:10:14.5	+55:08:23.4	0.47	68	0.82	0.67	0.82	U	
GMRT161014+0552421	16:10:14.0	+55:24:22.4	0.74	112	2.07	3.57	3.57	9.8	
GMRT161015+0535236	16:10:15.9	+53:52:37.6	0.79	104	1.36	1.21	1.36	U	
GMRT161015+0540612	16:10:15.8	+54:06:16.9	0.56	63	0.58	0.66	0.58	U	
GMRT161015+0543845	16:10:15.7	+54:38:49.8	0.04	49	0.45	0.46	0.45	U	
GMRT161015+0544434	16:10:15.9	+54:44:36.5	0.09	40	0.34	0.28	0.34	U	
GMRT161015+0545606	16:10:15.4	+54:56:15.4	0.27	45	0.85	0.76	0.85	U	
GMRT161015+0545812	16:10:15.5	+54:58:15.8	0.31	49	0.66	0.57	0.66	U	
GMRT161015+0553353	16:10:15.8	+55:33:60.0	0.90	171	4.73	10.85	10.85	13.1	
GMRT161016+0540143	16:10:16.8	+54:01:44.4	0.64	70	4.11	5.50	5.50	11.7	
GMRT161016+0540919	16:10:16.9	+54:09:27.1	0.51	62	0.46	0.51	0.46	U	
GMRT161016+0542123	16:10:16.8	+54:21:24.5	0.31	46	0.31	0.24	0.31	U	
GMRT161017+0534155	16:10:17.3	+53:41:62.3	0.97	144	1.54	1.47	1.54	U	
GMRT161017+0535449	16:10:17.4	+53:54:51.3	0.75	95	3.90	4.93	4.93	9.4	
GMRT161017+0540655	16:10:17.2	+54:06:60.6	0.55	61	0.47	0.39	0.47	U	
GMRT161017+0543047	16:10:17.7	+54:30:52.8	0.16	54	0.37	0.26	0.37	U	
GMRT161017+0544144	16:10:17.5	+54:41:51.7	0.05	40	0.38	0.37	0.38	U	
GMRT161018+0542328	16:10:18.1	+54:23:32.2	0.28	48	0.70	0.74	0.70	U	
GMRT161018+0544307	16:10:18.5	+54:43:09.6	0.07	41	0.32	0.31	0.32	U	
GMRT161019+0540305	16:10:19.2	+54:03:11.4	0.62	73	2.03	3.02	3.02	10.7	
GMRT161019+0542151	16:10:19.5	+54:21:54.4	0.31	48	1.25	1.33	1.25	U	
GMRT161020+0543857	16:10:21.0	+54:38:62.8	0.05	52	16.34	21.74	21.74	29.3	
GMRT161021+0534748	16:10:21.8	+53:47:56.2	0.87	118	0.98	1.17	0.98	U	
GMRT161021+0540155	16:10:21.7	+54:01:63.5	0.64	80	0.86	1.15	0.86	U	
GMRT161021+0540510	16:10:21.2	+54:05:16.7	0.58	63	0.58	0.52	0.58	U	
GMRT161021+0541336	16:10:21.6	+54:13:38.0	0.44	65	0.43	0.29	0.43	U	
GMRT161021+0543547	16:10:22.0	+54:35:49.7	0.09	45	1.28	1.60	1.60	9.4	
GMRT161021+0545545	16:10:21.9	+54:55:48.8	0.27	50	0.44	0.38	0.44	U	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT161022+0545404	16:10:22.1	+54:54:06.9	0.24	49	0.45	0.35	0.45	U	
GMRT161023+0540325	16:10:23.5	+54:03:33.4	0.61	68	3.17	4.12	4.12	8.2	
GMRT161023+0543007	16:10:23.1	+54:30:09.9	0.17	57	17.12	34.76	34.76	30.5	
GMRT161023+0545622	16:10:23.3	+54:56:30.0	0.28	48	0.46	0.55	0.46	U	
GMRT161023+0550056	16:10:23.7	+55:00:65.9	0.35	55	1.38	1.50	1.38	U	
GMRT161023+0550122	16:10:23.4	+55:01:24.0	0.36	57	0.81	0.74	0.81	U	
GMRT161024+0545707	16:10:24.9	+54:57:08.2	0.29	51	0.36	0.29	0.36	U	
GMRT161025+0534643	16:10:25.3	+53:46:49.6	0.89	130	1.08	1.96	1.08	U	
GMRT161025+0541934	16:10:25.6	+54:19:36.5	0.35	50	0.45	0.41	0.45	U	
GMRT161025+0545910	16:10:25.1	+54:59:15.7	0.33	57	0.37	0.38	0.37	U	
GMRT161025+0552147	16:10:25.6	+55:21:55.5	0.70	99	0.72	0.49	0.72	U	
GMRT161026+0534204	16:10:26.5	+53:42:10.8	0.97	151	1.71	2.40	2.40	9.4	
GMRT161026+0541033	16:10:26.9	+54:10:38.8	0.49	52	0.46	0.57	0.46	U	
GMRT161026+0543624	16:10:26.7	+54:36:28.0	0.09	48	4.34	4.83	4.83	3.4	
GMRT161026+0544203	16:10:26.7	+54:42:06.2	0.07	50	0.33	0.49	0.33	U	
GMRT161026+0545219	16:10:26.3	+54:52:21.1	0.21	43	0.44	0.33	0.44	U	
GMRT161026+0545929	16:10:26.9	+54:59:34.7	0.33	56	3.16	3.52	3.52	4.3	
GMRT161027+0541242	16:10:27.7	+54:12:51.9	0.46	78	8.40	35.27	35.27	47.4	
GMRT161028+0534633	16:10:28.6	+53:46:33.9	0.89	130	3.51	5.48	5.48	9.1	
GMRT161028+0540122	16:10:29.0	+54:01:23.9	0.65	80	0.91	1.21	0.91	U	
GMRT161028+0543533	16:10:28.9	+54:35:41.6	0.10	46	0.67	1.12	1.12	10.5	
GMRT161028+0544649	16:10:28.6	+54:46:51.2	0.13	40	0.32	0.38	0.32	U	
GMRT161029+0534419	16:10:29.0	+53:44:26.5	0.93	142	1.11	1.21	1.11	U	
GMRT161029+0545535	16:10:29.6	+54:55:39.0	0.27	46	0.34	0.28	0.34	U	
GMRT161030+0540249	16:10:30.7	+54:02:53.1	0.62	78	1.80	7.17	7.17	39.4	
GMRT161030+0543136	16:10:30.3	+54:31:45.1	0.16	46	0.44	0.49	0.44	U	
GMRT161030+0544425	16:10:31.0	+54:44:30.4	0.10	46	0.37	0.34	0.37	U	
GMRT161030+0550131	16:10:30.4	+55:01:33.6	0.37	62	2.44	2.88	2.88	4.2	
GMRT161031+0544300	16:10:31.7	+54:43:03.1	0.09	50	1.87	2.03	1.87	U	
GMRT161031+0550733	16:10:31.4	+55:07:34.8	0.47	78	6.04	7.94	7.94	20.1	
GMRT161033+0544520	16:10:33.0	+54:45:29.1	0.12	44	0.71	0.80	0.71	U	
GMRT161033+0545859	16:10:33.2	+54:58:61.4	0.33	50	0.34	0.32	0.34	U	
GMRT161034+0542316	16:10:34.8	+54:23:21.2	0.29	45	0.30	0.28	0.30	U	
GMRT161035+0541136	16:10:35.7	+54:11:39.1	0.48	54	0.48	0.45	0.48	U	
GMRT161035+0542549	16:10:35.9	+54:25:57.6	0.25	45	0.37	0.28	0.37	U	
GMRT161035+0544248	16:10:35.7	+54:42:57.3	0.10	53	0.55	0.69	0.55	U	
GMRT161036+0540441	16:10:36.2	+54:04:42.4	0.60	64	1.27	1.47	1.27	U	
GMRT161036+0541958	16:10:36.1	+54:19:67.3	0.34	49	0.56	0.88	0.56	U	
GMRT161036+0543503	16:10:36.4	+54:35:12.6	0.12	43	0.31	0.24	0.31	U	
GMRT161036+0544104	16:10:36.9	+54:41:11.6	0.09	52	9.11	13.05	13.05	14.5	
GMRT161037+0545117	16:10:38.0	+54:51:17.8	0.21	45	0.34	0.41	0.34	U	
GMRT161037+0552134	16:10:37.6	+55:21:35.8	0.70	110	0.67	0.56	0.67	U	
GMRT161037+0552410	16:10:37.5	+55:24:14.4	0.74	128	1.51	1.99	1.51	U	
GMRT161038+0534008	16:10:38.4	+53:40:09.6	1.00	176	1.15	1.32	1.15	U	
GMRT161038+0545148	16:10:38.1	+54:51:57.1	0.22	44	0.37	0.37	0.37	U	
GMRT161038+0550634	16:10:38.5	+55:06:39.6	0.45	71	0.53	0.61	0.53	U	
GMRT161038+0552625	16:10:38.5	+55:26:33.6	0.78	127	3.70	4.09	3.70	U	
GMRT161039+0541202	16:10:39.2	+54:12:10.1	0.48	54	0.47	0.42	0.47	U	
GMRT161039+0543109	16:10:39.8	+54:31:11.3	0.18	44	0.65	0.58	0.65	U	
GMRT161039+0553506	16:10:39.9	+55:35:07.9	0.92	176	1.61	1.96	1.61	U	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT161040+0540626	16:10:40.6	+54:06:32.2	0.57	65	4.74	12.69	12.69	28.7	
GMRT161040+0542253	16:10:40.7	+54:22:57.8	0.30	49	0.30	0.56	0.30	U	
GMRT161040+0542638	16:10:40.6	+54:26:43.3	0.24	48	0.44	0.32	0.44	U	
GMRT161040+0550824	16:10:40.8	+55:08:32.8	0.48	76	2.18	6.10	6.10	35.1	
GMRT161041+0541029	16:10:41.5	+54:10:33.8	0.50	58	1.32	1.68	1.32	U	
GMRT161041+0542947	16:10:41.6	+54:29:56.4	0.20	46	0.74	0.87	0.74	U	
GMRT161042+0535609	16:10:42.0	+53:56:10.0	0.74	83	0.95	0.95	0.95	U	
GMRT161042+0543135	16:10:42.6	+54:31:44.2	0.17	42	0.35	0.39	0.35	U	
GMRT161042+0544423	16:10:42.3	+54:44:24.0	0.13	48	0.44	0.36	0.44	U	
GMRT161042+0550136	16:10:42.5	+55:01:36.5	0.37	52	0.38	0.28	0.38	U	
GMRT161044+0541342	16:10:44.7	+54:13:45.2	0.45	52	0.34	0.30	0.34	U	
GMRT161045+0540445	16:10:45.9	+54:04:45.3	0.60	66	0.90	1.07	0.90	U	
GMRT161045+0543609	16:10:45.3	+54:36:09.6	0.13	46	1.27	1.49	1.27	U	
GMRT161045+0545651	16:10:45.1	+54:56:58.9	0.30	50	0.62	0.62	0.62	U	
GMRT161045+0551742	16:10:45.6	+55:17:45.9	0.64	102	1.51	1.36	1.51	U	
GMRT161045+0552049	16:10:45.5	+55:20:52.6	0.69	103	3.67	4.15	4.15	9.4	
GMRT161046+0542325	16:10:46.3	+54:23:28.9	0.30	50	1.40	1.31	1.40	U	
GMRT161046+0543534	16:10:47.0	+54:35:40.5	0.14	43	0.50	0.67	0.50	U	
GMRT161047+0540426	16:10:47.9	+54:04:31.0	0.60	70	0.44	0.41	0.44	U	
GMRT161047+0542723	16:10:47.2	+54:27:26.9	0.24	47	0.67	0.53	0.67	U	
GMRT161047+0544842	16:10:47.2	+54:48:49.0	0.18	44	0.35	0.38	0.35	U	
GMRT161047+0550834	16:10:47.6	+55:08:36.4	0.49	77	0.48	0.40	0.48	U	
GMRT161047+0554136	16:10:47.5	+55:41:40.2	1.03	216	2.86	2.45	2.86	U	
GMRT161048+0542337	16:10:48.1	+54:23:39.2	0.30	47	0.50	0.45	0.50	U	
GMRT161048+0542743	16:10:48.6	+54:27:46.3	0.24	44	0.52	0.48	0.52	U	
GMRT161048+0542923	16:10:48.6	+54:29:30.4	0.21	45	0.37	0.35	0.37	U	
GMRT161048+0544701	16:10:48.4	+54:47:01.7	0.17	44	0.83	0.83	0.83	U	
GMRT161051+0534121	16:10:51.5	+53:41:26.2	0.99	165	1.80	1.72	1.80	U	
GMRT161051+0540101	16:10:51.5	+54:01:08.8	0.66	75	0.53	0.46	0.53	U	
GMRT161051+0540538	16:10:51.2	+54:05:44.1	0.59	66	0.70	0.94	0.70	U	
GMRT161051+0541347	16:10:51.9	+54:13:51.3	0.45	50	0.66	0.81	0.66	U	
GMRT161051+0542239	16:10:51.7	+54:22:47.5	0.31	45	0.35	0.55	0.35	U	
GMRT161051+0543158	16:10:51.7	+54:31:63.0	0.18	42	0.35	0.26	0.35	U	
GMRT161052+0543736	16:10:52.9	+54:37:38.5	0.13	44	0.93	1.11	1.11	9.4	
GMRT161052+0551211	16:10:52.7	+55:12:20.4	0.55	94	0.94	1.13	0.94	U	
GMRT161052+0553036	16:10:52.2	+55:30:37.8	0.85	153	1.25	1.13	1.25	U	
GMRT161053+0544929	16:10:53.5	+54:49:35.1	0.20	44	0.79	0.81	0.79	U	
GMRT161054+0540831	16:10:54.3	+54:08:32.0	0.54	54	0.58	0.54	0.58	U	
GMRT161054+0543110	16:10:54.6	+54:31:15.6	0.20	41	0.30	0.22	0.30	U	
GMRT161054+0543255	16:10:54.9	+54:32:59.8	0.18	44	1.43	2.29	2.29	12.5	
GMRT161054+0544945	16:10:54.9	+54:49:54.0	0.21	42	0.50	0.51	0.50	U	
GMRT161054+0550041	16:10:55.0	+55:00:48.4	0.37	53	0.52	0.39	0.52	U	
GMRT161055+0542256	16:10:55.8	+54:22:63.0	0.31	47	0.41	0.47	0.41	U	
GMRT161055+0544042	16:10:56.0	+54:40:43.6	0.14	69	0.48	0.39	0.48	U	
GMRT161055+0545702	16:10:55.7	+54:57:09.4	0.31	55	0.97	1.06	0.97	U	
GMRT161056+0534844	16:10:56.2	+53:48:54.0	0.87	104	0.80	0.78	0.80	U	
GMRT161056+0543629	16:10:56.2	+54:36:33.5	0.15	44	0.27	0.21	0.27	U	
GMRT161057+0544105	16:10:58.0	+54:41:08.5	0.14	89	0.68	0.54	0.68	U	
GMRT161057+0545231	16:10:57.6	+54:52:39.0	0.25	48	0.88	0.81	0.88	U	
GMRT161057+0553524	16:10:57.9	+55:35:33.0	0.93	232	44.48	65.99	65.99	24.5	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT161058+0540525	16:10:58.2	+54:05:26.6	0.59	62	0.45	0.43	0.45	U	
GMRT161058+0543521	16:10:58.2	+54:35:27.6	0.16	42	0.48	0.40	0.48	U	
GMRT161059+0550706	16:10:59.7	+55:07:06.0	0.47	69	3.37	4.13	4.13	4.0	
GMRT161100+0535658	16:11:00.0	+53:56:58.9	0.73	78	0.53	0.40	0.53	U	
GMRT161100+0544200	16:11:00.5	+54:42:08.2	0.15	114	58.81	110.86	110.86	60.8	
GMRT161100+0550602	16:11:00.6	+55:06:03.2	0.46	71	0.58	0.51	0.58	U	
GMRT161101+0541734	16:11:01.6	+54:17:36.1	0.40	50	0.46	0.54	0.46	U	
GMRT161101+0543329	16:11:01.4	+54:33:30.7	0.18	47	0.36	0.26	0.36	U	
GMRT161102+0541541	16:11:02.5	+54:15:49.9	0.43	61	4.69	6.02	6.02	17.6	
GMRT161102+0542327	16:11:02.5	+54:23:31.4	0.31	50	1.19	1.30	1.19	U	
GMRT161102+0543359	16:11:02.9	+54:33:68.7	0.18	46	0.46	0.79	0.79	10.1	
GMRT161102+0544623	16:11:02.2	+54:46:28.3	0.18	46	0.47	0.44	0.47	U	
GMRT161102+0545755	16:11:02.5	+54:57:64.5	0.33	61	2.86	3.63	3.63	4.7	
GMRT161103+0543220	16:11:03.4	+54:32:25.3	0.20	46	0.37	0.25	0.37	U	
GMRT161104+0534952	16:11:04.9	+53:49:55.6	0.85	107	1.35	1.26	1.35	U	
GMRT161104+0541835	16:11:04.6	+54:18:35.0	0.39	50	0.45	0.43	0.45	U	
GMRT161104+0542831	16:11:04.8	+54:28:32.1	0.25	47	0.64	0.64	0.64	U	
GMRT161104+0545523	16:11:04.9	+54:55:26.3	0.30	50	1.28	1.18	1.28	U	
GMRT161105+0542120	16:11:05.4	+54:21:22.1	0.35	48	0.31	0.17	0.31	U	
GMRT161105+0545132	16:11:05.3	+54:51:40.7	0.25	48	0.43	0.58	0.43	U	
GMRT161107+0540851	16:11:07.7	+54:08:52.5	0.54	60	0.52	0.39	0.52	U	
GMRT161107+0542351	16:11:07.3	+54:23:56.8	0.31	46	0.40	0.29	0.40	U	
GMRT161107+0544945	16:11:07.1	+54:49:52.0	0.23	46	0.74	0.82	0.74	U	
GMRT161107+0552906	16:11:07.5	+55:29:07.3	0.83	158	1.60	1.55	1.60	U	
GMRT161108+0545030	16:11:08.6	+54:50:32.4	0.24	50	0.44	0.43	0.44	U	
GMRT161109+0535803	16:11:09.7	+53:58:11.0	0.72	84	2.32	3.06	2.32	U	
GMRT161109+0541213	16:11:09.4	+54:12:21.3	0.49	63	0.60	0.57	0.60	U	
GMRT161109+0544619	16:11:09.6	+54:46:19.8	0.20	47	0.47	0.44	0.47	U	
GMRT161109+0544655	16:11:09.6	+54:46:58.1	0.20	47	1.33	1.36	1.33	U	
GMRT161110+0534048	16:11:10.7	+53:40:49.7	1.00	168	1.67	1.90	1.67	U	
GMRT161110+0540914	16:11:10.9	+54:09:15.0	0.54	62	1.01	1.15	1.01	U	
GMRT161110+0545924	16:11:10.8	+54:59:33.9	0.37	59	0.53	0.41	0.53	U	
GMRT161111+0535617	16:11:11.7	+53:56:19.9	0.75	111	13.52	23.57	23.57	23.7	
GMRT161111+0552654	16:11:11.3	+55:26:60.0	0.80	171	1.64	3.08	1.64	U	
GMRT161112+0542939	16:11:13.0	+54:29:45.4	0.25	43	0.31	0.21	0.31	U	
GMRT161112+0545623	16:11:12.5	+54:56:32.8	0.32	49	0.46	0.36	0.46	U	
GMRT161112+0550818	16:11:12.8	+55:08:24.0	0.50	84	2.62	3.51	3.51	9.4	
GMRT161113+0540143	16:11:13.9	+54:01:47.1	0.66	78	0.84	0.82	0.84	U	
GMRT161113+0543023	16:11:13.5	+54:30:30.9	0.24	43	0.34	0.30	0.34	U	
GMRT161113+0543314	16:11:13.1	+54:33:23.5	0.21	53	4.54	9.29	9.29	18.1	
GMRT161113+0545154	16:11:13.5	+54:51:57.1	0.27	49	0.44	0.28	0.44	U	
GMRT161113+0545637	16:11:13.9	+54:56:42.9	0.33	51	0.69	0.61	0.69	U	
GMRT161115+0544138	16:11:15.7	+54:41:43.9	0.18	59	1.06	1.03	1.06	U	
GMRT161115+0545934	16:11:15.8	+54:59:36.1	0.37	59	0.47	0.42	0.47	U	
GMRT161115+0553439	16:11:15.1	+55:34:44.4	0.93	255	9.59	18.08	18.08	9.3	
GMRT161116+0540629	16:11:16.1	+54:06:38.7	0.59	65	1.20	1.33	1.20	U	
GMRT161116+0542515	16:11:16.3	+54:25:17.1	0.31	53	1.67	1.92	1.92	3.3	
GMRT161116+0542834	16:11:16.7	+54:28:37.5	0.27	44	0.42	0.37	0.42	U	
GMRT161116+0544822	16:11:16.4	+54:48:28.1	0.23	50	0.36	0.24	0.36	U	
GMRT161117+0534416	16:11:17.0	+53:44:24.9	0.95	209	30.59	43.54	43.54	25.8	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT161117+0540216	16:11:17.5	+54:02:22.6	0.66	80	0.79	0.79	0.79	U	
GMRT161117+0541625	16:11:17.6	+54:16:34.8	0.44	63	2.11	2.82	2.82	4.8	
GMRT161118+0553345	16:11:18.1	+55:33:53.9	0.92	272	24.18	88.84	88.84	32.5	
GMRT161119+0541253	16:11:19.5	+54:12:58.5	0.49	58	1.01	1.21	1.01	U	
GMRT161119+0542801	16:11:19.9	+54:28:03.3	0.28	46	0.75	0.80	0.75	U	
GMRT161119+0552843	16:11:19.9	+55:28:49.1	0.83	214	59.40	93.83	93.83	20.8	
GMRT161120+0542337	16:11:20.7	+54:23:45.0	0.34	47	0.33	0.31	0.33	U	
GMRT161121+0543144	16:11:21.0	+54:31:46.6	0.24	52	8.48	19.60	19.60	23.7	
GMRT161121+0545110	16:11:21.7	+54:51:19.8	0.27	48	0.32	0.19	0.32	U	
GMRT161121+0550213	16:11:21.1	+55:02:14.5	0.42	61	1.74	2.07	2.07	3.7	
GMRT161122+0542230	16:11:22.2	+54:22:31.2	0.35	45	0.46	0.48	0.46	U	
GMRT161122+0543910	16:11:22.6	+54:39:16.0	0.20	48	0.41	0.43	0.41	U	
GMRT161123+0535538	16:11:23.6	+53:55:38.5	0.77	98	1.69	2.11	1.69	U	
GMRT161123+0545154	16:11:23.5	+54:51:59.5	0.28	49	1.18	1.36	1.18	U	
GMRT161124+0541351	16:11:24.3	+54:13:60.6	0.48	62	0.45	0.48	0.45	U	
GMRT161124+0541704	16:11:24.6	+54:17:06.7	0.43	60	1.65	2.71	2.71	7.0	
GMRT161125+0542035	16:11:25.5	+54:20:43.9	0.38	49	0.38	0.27	0.38	U	
GMRT161126+0542717	16:11:26.5	+54:27:25.1	0.30	49	0.83	1.29	1.29	13.6	
GMRT161126+0543826	16:11:26.1	+54:38:26.3	0.21	47	2.14	2.93	2.93	10.5	
GMRT161126+0550047	16:11:26.7	+55:00:51.6	0.40	58	0.55	0.48	0.55	U	
GMRT161127+0540547	16:11:27.0	+54:05:54.6	0.61	64	0.80	0.76	0.80	U	
GMRT161127+0541123	16:11:27.4	+54:11:32.7	0.52	57	0.36	0.27	0.36	U	
GMRT161127+0541304	16:11:27.3	+54:13:10.8	0.50	59	0.62	0.83	0.62	U	
GMRT161127+0541416	16:11:27.1	+54:14:23.8	0.48	60	2.11	2.64	2.11	U	
GMRT161127+0542233	16:11:27.6	+54:22:40.9	0.36	49	1.26	1.21	1.26	U	
GMRT161127+0542930	16:11:27.0	+54:29:30.2	0.27	50	0.42	0.35	0.42	U	
GMRT161129+0535740	16:11:29.0	+53:57:40.5	0.74	97	5.53	6.90	6.90	11.7	
GMRT161129+0541043	16:11:29.4	+54:10:47.9	0.53	56	0.40	0.29	0.40	U	
GMRT161129+0542308	16:11:29.3	+54:23:10.8	0.35	51	0.37	0.28	0.37	U	
GMRT161129+0543008	16:11:29.6	+54:30:10.1	0.27	51	1.10	1.14	1.10	U	
GMRT161129+0544603	16:11:29.7	+54:46:08.0	0.24	58	20.89	22.83	22.83	15.2	
GMRT161130+0535853	16:11:30.7	+53:58:54.1	0.72	111	0.75	0.85	0.75	U	
GMRT161130+0541632	16:11:30.8	+54:16:34.0	0.45	67	6.76	15.67	15.67	23.3	
GMRT161131+0540249	16:11:31.4	+54:02:57.4	0.66	79	0.71	0.74	0.71	U	
GMRT161133+0541552	16:11:33.1	+54:15:54.0	0.46	65	0.49	0.36	0.49	U	
GMRT161133+0550311	16:11:33.2	+55:03:14.2	0.45	68	0.91	0.76	0.91	U	
GMRT161133+0551233	16:11:33.5	+55:12:42.3	0.59	113	7.84	8.75	8.75	4.2	
GMRT161134+0542335	16:11:34.8	+54:23:41.7	0.36	54	0.54	0.56	0.54	U	
GMRT161134+0542418	16:11:34.2	+54:24:19.2	0.35	50	0.33	0.47	0.33	U	
GMRT161134+0542702	16:11:34.6	+54:27:02.9	0.31	49	0.30	0.34	0.30	U	
GMRT161136+0540213	16:11:37.0	+54:02:20.0	0.67	82	0.55	0.54	0.55	U	
GMRT161136+0544046	16:11:36.2	+54:40:49.9	0.23	56	0.37	0.26	0.37	U	
GMRT161137+0535151	16:11:37.8	+53:51:52.4	0.84	124	0.91	1.12	0.91	U	
GMRT161137+0540749	16:11:37.8	+54:07:55.7	0.59	61	1.04	1.20	1.04	U	
GMRT161137+0541311	16:11:37.8	+54:13:12.7	0.51	56	3.39	3.86	3.86	5.2	
GMRT161137+0543313	16:11:37.8	+54:33:18.3	0.26	44	0.54	0.53	0.54	U	
GMRT161137+0552345	16:11:37.3	+55:23:51.7	0.77	226	1.85	1.43	1.85	U	
GMRT161138+0535926	16:11:38.4	+53:59:26.6	0.72	149	31.22	84.54	84.54	34.0	
GMRT161138+0541918	16:11:38.6	+54:19:27.5	0.42	54	0.64	0.55	0.64	U	
GMRT161139+0535132	16:11:40.0	+53:51:41.8	0.84	128	10.77	13.68	13.68	16.2	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT161140+0541438	16:11:40.6	+54:14:38.9	0.49	63	1.44	1.36	1.44	U	
GMRT161140+0544423	16:11:40.2	+54:44:24.3	0.25	49	0.83	0.87	0.83	U	
GMRT161141+0535418	16:11:41.9	+53:54:27.6	0.80	101	0.88	0.82	0.88	U	
GMRT161143+0535311	16:11:43.8	+53:53:13.8	0.82	96	1.63	1.77	1.63	U	
GMRT161143+0540703	16:11:43.7	+54:07:07.4	0.60	62	2.10	2.24	2.10	U	
GMRT161143+0541625	16:11:43.7	+54:16:32.1	0.47	60	1.27	1.58	1.27	U	
GMRT161143+0541818	16:11:43.8	+54:18:24.8	0.44	59	0.40	0.38	0.40	U	
GMRT161143+0542425	16:11:43.5	+54:24:29.2	0.36	53	0.33	0.29	0.33	U	
GMRT161144+0545505	16:11:44.9	+54:55:14.5	0.36	58	1.59	2.23	2.23	9.4	
GMRT161145+0540951	16:11:45.8	+54:09:59.0	0.56	68	0.94	0.92	0.94	U	
GMRT161145+0542624	16:11:45.3	+54:26:27.3	0.34	50	0.32	0.28	0.32	U	
GMRT161145+0553119	16:11:45.7	+55:31:22.7	0.89	198	2.07	2.31	2.07	U	
GMRT161146+0544230	16:11:46.9	+54:42:31.7	0.26	46	0.37	0.25	0.37	U	
GMRT161146+0551349	16:11:46.2	+55:13:52.3	0.62	119	0.74	0.74	0.74	U	
GMRT161147+0540404	16:11:47.0	+54:04:08.4	0.65	72	0.91	0.84	0.91	U	
GMRT161147+0540632	16:11:47.4	+54:06:41.3	0.62	67	0.49	0.51	0.49	U	
GMRT161147+0545149	16:11:47.6	+54:51:56.3	0.33	52	0.65	0.63	0.65	U	
GMRT161149+0542619	16:11:49.5	+54:26:19.3	0.35	53	0.41	0.45	0.41	U	
GMRT161149+0543140	16:11:49.2	+54:31:46.2	0.30	48	0.41	0.43	0.41	U	
GMRT161150+0541140	16:11:50.6	+54:11:47.6	0.54	65	0.47	0.78	0.47	U	
GMRT161150+0544714	16:11:50.1	+54:47:21.1	0.29	47	4.68	5.32	5.32	4.0	
GMRT161150+0545259	16:11:50.3	+54:52:63.7	0.34	57	0.79	1.07	1.07	14.3	
GMRT161151+0550051	16:11:51.6	+55:00:54.3	0.44	88	4.52	41.08	41.08	92.1	
GMRT161152+0540129	16:11:52.6	+54:01:35.8	0.70	101	13.82	16.92	16.92	19.8	
GMRT161152+0543644	16:11:52.8	+54:36:52.0	0.28	46	0.36	0.25	0.36	U	
GMRT161152+0544137	16:11:53.0	+54:41:44.6	0.27	49	0.30	0.33	0.30	U	
GMRT161153+0535856	16:11:53.7	+53:58:59.9	0.74	98	1.27	1.55	1.27	U	
GMRT161153+0540840	16:11:53.4	+54:08:41.3	0.59	69	0.86	1.49	1.49	11.0	
GMRT161153+0543254	16:11:53.9	+54:32:57.8	0.30	48	0.42	0.36	0.42	U	
GMRT161153+0543919	16:11:53.6	+54:39:26.9	0.27	49	0.70	0.84	0.70	U	
GMRT161154+0543608	16:11:54.9	+54:36:13.6	0.28	48	0.33	0.20	0.33	U	
GMRT161154+0544213	16:11:54.5	+54:42:20.1	0.28	48	0.34	0.22	0.34	U	
GMRT161154+0544711	16:11:54.9	+54:47:11.6	0.30	48	0.32	0.32	0.32	U	
GMRT161155+0534455	16:11:56.0	+53:44:60.8	0.96	156	1.20	1.35	1.20	U	
GMRT161155+0543114	16:11:55.3	+54:31:20.1	0.31	50	6.82	8.45	8.45	18.7	
GMRT161155+0543914	16:11:56.0	+54:39:19.5	0.28	50	0.34	0.28	0.34	U	
GMRT161156+0544934	16:11:56.3	+54:49:36.7	0.32	50	0.36	0.40	0.36	U	
GMRT161157+0541505	16:11:57.5	+54:15:07.9	0.50	55	0.46	0.50	0.46	U	
GMRT161157+0545721	16:11:57.8	+54:57:24.4	0.40	60	0.77	1.17	1.17	9.8	
GMRT161159+0542409	16:11:59.2	+54:24:10.5	0.39	49	0.90	0.86	0.90	U	
GMRT161159+0544414	16:11:59.5	+54:44:21.4	0.30	54	4.30	4.75	4.75	4.4	
GMRT161200+0544208	16:12:00.5	+54:42:08.3	0.29	48	0.95	1.09	0.95	U	
GMRT161200+0544637	16:12:00.3	+54:46:46.8	0.31	50	0.42	0.36	0.42	U	
GMRT161201+0540001	16:12:01.8	+54:00:09.5	0.73	88	1.16	1.06	1.16	U	
GMRT161201+0542829	16:12:01.8	+54:28:29.1	0.35	53	0.38	0.36	0.38	U	
GMRT161201+0543303	16:12:01.8	+54:33:03.1	0.32	49	0.34	0.33	0.34	U	
GMRT161202+0545447	16:12:02.2	+54:54:52.3	0.38	70	0.65	0.61	0.65	U	
GMRT161202+0545737	16:12:02.5	+54:57:46.9	0.42	64	0.60	0.93	0.60	U	
GMRT161203+0544529	16:12:03.3	+54:45:33.6	0.31	52	8.19	9.83	9.83	23.3	
GMRT161203+0545931	16:12:03.1	+54:59:35.1	0.44	61	0.55	0.70	0.55	U	

Table 3 – continued

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size '' (9)	Notes (10)
GMRT161204+0540933	16:12:04.5	+54:09:41.6	0.59	71	0.47	0.44	0.47	U	
GMRT161204+0543446	16:12:04.7	+54:34:55.0	0.31	49	0.79	0.81	0.79	U	
GMRT161204+0545505	16:12:04.9	+54:55:08.3	0.39	68	0.60	0.51	0.60	U	
GMRT161205+0535954	16:12:05.3	+53:59:59.4	0.73	90	0.83	0.73	0.83	U	
GMRT161205+0544146	16:12:05.0	+54:41:47.1	0.30	47	1.25	1.18	1.25	U	
GMRT161207+0541936	16:12:07.3	+54:19:37.7	0.46	67	1.60	1.84	1.60	U	
GMRT161208+0542903	16:12:08.6	+54:29:10.3	0.36	56	0.43	0.40	0.43	U	
GMRT161209+0545023	16:12:10.0	+54:50:29.3	0.36	51	0.95	0.86	0.95	U	
GMRT161209+0545304	16:12:09.6	+54:53:10.0	0.38	55	0.43	0.42	0.43	U	
GMRT161209+0551601	16:12:09.1	+55:16:08.5	0.68	165	4.47	4.00	4.47	U	
GMRT161209+0551717	16:12:10.0	+55:17:25.9	0.70	208	2.61	2.21	2.61	U	
GMRT161210+0535525	16:12:10.9	+53:55:34.5	0.81	102	1.61	1.63	1.61	U	
GMRT161210+0543534	16:12:11.0	+54:35:35.5	0.32	48	0.38	0.39	0.38	U	
GMRT161210+0551256	16:12:10.9	+55:12:62.9	0.63	120	1.10	1.01	1.10	U	
GMRT161211+0543044	16:12:11.4	+54:30:50.5	0.35	55	0.48	0.41	0.48	U	
GMRT161212+0533719	16:12:12.3	+53:37:25.0	1.09	262	4.39	5.27	5.27	9.9	
GMRT161212+0543103	16:12:12.5	+54:31:11.8	0.35	54	0.33	0.21	0.33	U	
GMRT161212+0552300	16:12:12.5	+55:23:04.6	0.78	2221	1118.82	2084.05	2084.05	36.8	
GMRT161213+0543533	16:12:13.6	+54:35:41.0	0.33	49	0.37	0.32	0.37	U	
GMRT161214+0540446	16:12:14.2	+54:04:52.1	0.67	76	2.81	5.23	5.23	13.3	
GMRT161214+0540831	16:12:14.3	+54:08:39.4	0.62	71	1.14	2.04	2.04	9.8	
GMRT161215+0541745	16:12:15.3	+54:17:48.3	0.49	70	0.55	0.54	0.55	U	
GMRT161215+0543102	16:12:15.4	+54:31:08.3	0.36	53	0.41	0.36	0.41	U	
GMRT161215+0545531	16:12:15.7	+54:55:32.0	0.42	56	3.23	3.41	3.23	U	
GMRT161216+0545020	16:12:16.4	+54:50:23.6	0.37	49	0.64	0.63	0.64	U	
GMRT161216+0545449	16:12:16.6	+54:54:55.4	0.41	54	0.51	0.43	0.51	U	
GMRT161217+0535501	16:12:17.0	+53:55:04.2	0.82	95	0.67	0.55	0.67	U	
GMRT161217+0541739	16:12:17.8	+54:17:48.7	0.50	75	0.76	1.00	0.76	U	
GMRT161217+0542015	16:12:17.8	+54:20:20.5	0.47	62	0.56	0.53	0.56	U	
GMRT161218+0540712	16:12:18.5	+54:07:17.0	0.64	76	0.67	0.62	0.67	U	
GMRT161218+0543419	16:12:18.1	+54:34:19.3	0.35	49	0.39	0.28	0.39	U	
GMRT161218+0545039	16:12:18.1	+54:50:43.0	0.38	51	0.45	0.27	0.45	U	
GMRT161218+0545244	16:12:18.6	+54:52:53.0	0.40	65	0.92	0.92	0.92	U	
GMRT161219+0540935	16:12:19.4	+54:09:44.1	0.61	68	0.89	0.87	0.89	U	
GMRT161219+0545342	16:12:19.6	+54:53:47.5	0.41	62	0.75	0.79	0.75	U	
GMRT161220+0541511	16:12:20.2	+54:15:17.0	0.53	69	0.46	0.37	0.46	U	
GMRT161220+0544040	16:12:20.8	+54:40:43.5	0.34	52	0.41	0.42	0.41	U	
GMRT161220+0545737	16:12:20.7	+54:57:44.3	0.45	70	1.59	1.50	1.59	U	
GMRT161221+0540540	16:12:21.7	+54:05:48.4	0.67	76	3.74	4.40	4.40	4.9	
GMRT161221+0544645	16:12:21.4	+54:46:52.9	0.36	53	2.85	6.03	6.03	16.4	
GMRT161221+0545958	16:12:21.6	+54:59:61.0	0.48	74	0.68	0.92	0.68	U	
GMRT161221+0554138	16:12:22.0	+55:41:41.8	1.08	275	11.40	14.50	14.50	9.4	
GMRT161222+0540901	16:12:22.4	+54:09:05.7	0.62	72	0.56	0.53	0.56	U	
GMRT161222+0544506	16:12:23.0	+54:45:09.6	0.35	51	0.85	0.86	0.85	U	
GMRT161222+0545218	16:12:22.5	+54:52:22.8	0.40	61	8.82	10.08	10.08	15.7	
GMRT161223+0540059	16:12:23.3	+54:00:62.4	0.74	93	9.10	30.54	30.54	21.7	
GMRT161223+0540336	16:12:23.6	+54:03:39.5	0.70	74	1.43	1.44	1.43	U	
GMRT161223+0543338	16:12:23.9	+54:33:41.7	0.36	57	0.71	0.68	0.71	U	
GMRT161223+0543836	16:12:23.3	+54:38:37.5	0.35	54	5.98	6.88	6.88	18.9	
GMRT161223+0552553	16:12:23.8	+55:25:62.5	0.84	433	43.01	58.52	58.52	13.3	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT161224+0543901	16:12:24.4	+54:39:10.8	0.35	54	0.98	1.11	0.98	U	
GMRT161225+0542319	16:12:25.4	+54:23:22.5	0.45	66	0.73	0.67	0.73	U	
GMRT161225+0545143	16:12:25.6	+54:51:52.0	0.40	63	0.54	0.35	0.54	U	
GMRT161225+0545459	16:12:25.6	+54:54:67.4	0.43	57	3.51	3.54	3.51	U	
GMRT161226+0540229	16:12:26.9	+54:02:36.8	0.72	84	1.66	1.67	1.66	U	
GMRT161226+0543826	16:12:26.8	+54:38:35.2	0.35	51	0.48	0.51	0.48	U	
GMRT161226+0545011	16:12:26.1	+54:50:17.9	0.39	59	0.37	0.22	0.37	U	
GMRT161227+0535742	16:12:27.9	+53:57:42.5	0.79	94	2.58	2.61	2.58	U	
GMRT161227+0541456	16:12:27.5	+54:14:59.3	0.55	71	0.74	1.01	0.74	U	
GMRT161227+0550123	16:12:27.2	+55:01:26.7	0.50	67	0.74	0.83	0.74	U	
GMRT161227+0551142	16:12:27.4	+55:11:46.0	0.64	109	0.96	0.88	0.96	U	
GMRT161228+0534515	16:12:28.7	+53:45:16.7	0.98	163	1.21	1.18	1.21	U	
GMRT161229+0543308	16:12:29.1	+54:33:14.1	0.38	56	0.45	0.34	0.45	U	
GMRT161229+0550634	16:12:29.2	+55:06:35.5	0.57	116	43.37	50.71	50.71	24.2	
GMRT161230+0543724	16:12:30.4	+54:37:31.9	0.37	49	0.36	0.25	0.36	U	
GMRT161230+0545105	16:12:30.6	+54:51:08.3	0.41	62	3.98	7.99	7.99	10.2	
GMRT161231+0541759	16:12:31.3	+54:17:63.6	0.52	112	32.46	50.86	50.86	31.3	
GMRT161231+0545207	16:12:31.0	+54:52:16.8	0.42	58	1.92	1.85	1.92	U	
GMRT161233+0540855	16:12:33.2	+54:08:64.7	0.64	73	0.58	0.41	0.58	U	
GMRT161233+0545627	16:12:33.7	+54:56:31.1	0.46	60	1.22	1.77	1.22	U	
GMRT161234+0550408	16:12:34.6	+55:04:08.6	0.55	74	0.98	1.00	0.98	U	
GMRT161235+0542915	16:12:35.3	+54:29:15.3	0.42	67	1.00	0.95	1.00	U	
GMRT161235+0543055	16:12:35.1	+54:30:55.9	0.40	68	0.55	0.44	0.55	U	
GMRT161235+0543315	16:12:35.1	+54:33:20.1	0.39	57	0.44	0.36	0.44	U	
GMRT161236+0545538	16:12:36.9	+54:55:45.4	0.46	55	0.50	0.48	0.50	U	
GMRT161237+0535804	16:12:37.0	+53:58:08.2	0.80	104	1.64	5.66	5.66	15.2	
GMRT161237+0541840	16:12:37.1	+54:18:46.9	0.52	98	5.78	6.68	6.68	4.2	
GMRT161237+0542330	16:12:37.3	+54:23:37.4	0.47	70	0.73	0.66	0.73	U	
GMRT161237+0543831	16:12:37.7	+54:38:36.1	0.38	54	0.34	0.29	0.34	U	
GMRT161238+0550031	16:12:38.6	+55:00:36.9	0.51	65	2.23	2.47	2.23	U	
GMRT161239+0545719	16:12:39.6	+54:57:25.1	0.48	63	1.24	1.13	1.24	U	
GMRT161240+0543654	16:12:40.2	+54:36:55.9	0.39	54	0.56	0.89	0.56	U	
GMRT161240+0544929	16:12:40.4	+54:49:32.3	0.42	58	0.44	0.33	0.44	U	
GMRT161241+0543916	16:12:41.9	+54:39:16.5	0.39	57	0.81	0.83	0.81	U	
GMRT161241+0545816	16:12:41.9	+54:58:24.4	0.49	60	0.59	0.53	0.59	U	
GMRT161242+0540934	16:12:42.6	+54:09:38.5	0.64	76	0.80	0.95	0.80	U	
GMRT161242+0544620	16:12:42.7	+54:46:25.9	0.41	56	0.53	0.82	0.82	13.8	
GMRT161244+0542340	16:12:44.6	+54:23:48.4	0.48	78	0.56	0.56	0.56	U	
GMRT161244+0543441	16:12:44.4	+54:34:49.5	0.41	67	0.65	0.62	0.65	U	
GMRT161245+0542820	16:12:45.2	+54:28:28.6	0.44	76	1.38	1.76	1.38	U	
GMRT161245+0543454	16:12:45.1	+54:34:60.3	0.41	67	0.53	0.40	0.53	U	
GMRT161245+0550710	16:12:45.1	+55:07:15.7	0.60	96	1.01	0.85	1.01	U	
GMRT161246+0544248	16:12:46.8	+54:42:54.2	0.40	57	0.56	0.50	0.56	U	
GMRT161247+0535445	16:12:47.6	+53:54:49.4	0.86	108	1.04	1.14	1.04	U	
GMRT161247+0535926	16:12:48.0	+53:59:28.4	0.79	102	0.84	0.91	0.84	U	
GMRT161248+0543513	16:12:48.3	+54:35:21.2	0.41	66	2.32	2.84	2.84	3.2	
GMRT161248+0543639	16:12:48.4	+54:36:42.6	0.41	54	0.42	0.39	0.42	U	
GMRT161249+0540834	16:12:49.8	+54:08:37.0	0.67	75	1.70	2.93	2.93	10.4	
GMRT161249+0550236	16:12:49.4	+55:02:38.1	0.55	89	15.42	35.37	35.37	25.3	
GMRT161251+0535931	16:12:51.2	+53:59:36.7	0.79	107	9.07	16.43	16.43	21.7	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT161251+0541649	16:12:51.2	+54:16:53.0	0.57	74	0.48	0.85	0.48	U	
GMRT161251+0542846	16:12:51.4	+54:28:46.6	0.45	87	1.54	1.61	1.54	U	
GMRT161252+0550659	16:12:53.0	+55:06:61.3	0.61	81	1.52	1.49	1.52	U	
GMRT161253+0544109	16:12:53.6	+54:41:17.1	0.42	55	0.77	0.90	0.77	U	
GMRT161254+0544740	16:12:54.7	+54:47:44.0	0.44	59	0.81	1.39	1.39	14.1	
GMRT161254+0545258	16:12:54.4	+54:52:64.0	0.47	63	0.64	0.68	0.64	U	
GMRT161254+0545522	16:12:54.5	+54:55:27.6	0.49	63	1.64	2.06	2.06	4.1	
GMRT161255+0535950	16:12:56.0	+53:59:52.6	0.79	101	0.98	0.92	0.98	U	
GMRT161255+0540722	16:12:55.4	+54:07:25.7	0.69	73	0.89	0.96	0.89	U	
GMRT161256+0545209	16:12:56.7	+54:52:17.7	0.47	63	0.43	0.32	0.43	U	
GMRT161257+0551122	16:12:57.2	+55:11:28.7	0.67	99	0.66	0.40	0.66	U	
GMRT161258+0542829	16:12:58.6	+54:28:34.5	0.47	102	1.03	0.96	1.03	U	
GMRT161258+0543448	16:12:58.9	+54:34:52.5	0.44	67	0.55	0.54	0.55	U	
GMRT161259+0544828	16:12:59.3	+54:48:31.3	0.45	65	0.64	0.88	0.64	U	
GMRT161300+0543541	16:13:00.8	+54:35:41.9	0.44	68	0.46	0.42	0.46	U	
GMRT161300+0544501	16:13:00.6	+54:45:06.1	0.44	59	0.66	0.78	0.66	U	
GMRT161300+0550446	16:13:00.0	+55:04:46.4	0.60	77	0.59	0.63	0.59	U	
GMRT161301+0534126	16:13:01.1	+53:41:30.4	1.07	198	2.43	2.60	2.43	U	
GMRT161301+0540959	16:13:01.3	+54:09:66.5	0.67	74	1.24	1.16	1.24	U	
GMRT161301+0552119	16:13:02.0	+55:21:23.2	0.81	224	1.74	1.20	1.74	U	
GMRT161302+0540859	16:13:02.7	+54:08:66.8	0.68	82	0.64	0.72	0.64	U	
GMRT161302+0543945	16:13:02.3	+54:39:49.5	0.44	63	0.57	0.52	0.57	U	
GMRT161303+0543220	16:13:03.6	+54:32:26.4	0.46	86	13.32	44.54	44.54	36.2	
GMRT161303+0544649	16:13:03.4	+54:46:55.8	0.46	59	0.65	0.65	0.65	U	
GMRT161304+0550108	16:13:04.5	+55:01:17.8	0.57	76	0.48	0.53	0.48	U	
GMRT161305+0540016	16:13:05.2	+54:00:17.5	0.80	94	1.69	2.08	2.08	5.0	
GMRT161306+0543455	16:13:06.1	+54:34:62.9	0.46	68	0.98	1.25	0.98	U	
GMRT161308+0545138	16:13:08.2	+54:51:40.2	0.49	61	0.52	0.81	0.52	U	
GMRT161309+0543424	16:13:09.2	+54:34:24.9	0.47	71	0.45	0.23	0.45	U	
GMRT161309+0552207	16:13:09.8	+55:22:13.6	0.84	273	5.61	11.65	11.65	14.2	
GMRT161311+0540335	16:13:11.1	+54:03:42.9	0.76	87	0.65	0.53	0.65	U	
GMRT161312+0553302	16:13:12.4	+55:33:11.2	1.00	267	1.77	1.17	1.77	U	
GMRT161313+0544829	16:13:13.2	+54:48:29.6	0.49	61	0.48	0.38	0.48	U	
GMRT161314+0535457	16:13:14.1	+53:54:65.1	0.89	113	1.06	0.76	1.06	U	
GMRT161314+0542020	16:13:14.5	+54:20:26.3	0.57	84	0.70	0.60	0.70	U	
GMRT161314+0544412	16:13:14.9	+54:44:20.2	0.47	66	0.90	0.96	0.90	U	
GMRT161314+0551552	16:13:14.3	+55:15:54.1	0.76	126	1.30	1.29	1.30	U	
GMRT161315+0540055	16:13:15.8	+54:00:59.6	0.81	93	0.86	0.92	0.86	U	
GMRT161315+0541342	16:13:15.2	+54:13:46.6	0.64	82	0.78	0.90	0.78	U	
GMRT161315+0541359	16:13:15.9	+54:13:61.7	0.64	81	0.70	0.94	0.70	U	
GMRT161315+0541745	16:13:15.2	+54:17:47.8	0.60	103	12.48	17.13	17.13	25.2	
GMRT161315+0545439	16:13:15.9	+54:54:47.3	0.53	58	0.62	0.50	0.62	U	
GMRT161315+0550212	16:13:15.8	+55:02:12.3	0.60	75	0.74	0.63	0.74	U	
GMRT161316+0535457	16:13:16.0	+53:54:61.5	0.89	117	1.42	1.36	1.42	U	
GMRT161317+0550933	16:13:17.3	+55:09:34.1	0.68	97	3.96	4.85	4.85	5.1	
GMRT161319+0541033	16:13:19.7	+54:10:34.0	0.69	91	2.85	6.99	6.99	29.1	
GMRT161319+0542119	16:13:19.1	+54:21:26.8	0.57	86	0.71	0.53	0.71	U	
GMRT161319+0545134	16:13:19.4	+54:51:40.2	0.52	65	1.88	2.13	2.13	3.5	
GMRT161320+0541631	16:13:20.7	+54:16:38.5	0.62	104	6.55	15.54	15.54	54.6	
GMRT161321+0534300	16:13:21.7	+53:43:07.5	1.07	225	3.75	17.39	17.39	26.2	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT161322+0543745	16:13:22.6	+54:37:48.9	0.49	68	0.42	0.36	0.42	U	
GMRT161322+0550614	16:13:22.1	+55:06:15.1	0.65	83	1.07	0.93	1.07	U	
GMRT161323+0545725	16:13:23.3	+54:57:25.4	0.57	68	0.58	0.42	0.58	U	
GMRT161325+0553927	16:13:25.4	+55:39:27.2	1.10	287	16.40	23.01	23.01	4.1	
GMRT161326+0544447	16:13:26.2	+54:44:48.0	0.50	66	0.45	0.37	0.45	U	
GMRT161326+0544523	16:13:26.9	+54:45:23.7	0.51	65	0.46	0.45	0.46	U	
GMRT161327+0535542	16:13:27.4	+53:55:42.1	0.89	115	1.13	1.53	1.13	U	
GMRT161327+0540402	16:13:27.9	+54:04:05.0	0.78	102	1.90	6.21	6.21	18.8	
GMRT161328+0551544	16:13:28.0	+55:15:46.1	0.78	158	18.81	77.88	77.88	44.0	
GMRT161329+0541452	16:13:29.4	+54:14:59.4	0.66	90	1.90	3.26	3.26	9.9	
GMRT161329+0543021	16:13:29.8	+54:30:21.6	0.53	129	2.24	2.54	2.24	U	
GMRT161329+0543736	16:13:29.7	+54:37:44.0	0.51	68	2.95	4.03	4.03	10.0	
GMRT161331+0541626	16:13:31.4	+54:16:30.0	0.65	96	3.01	5.02	5.02	12.7	
GMRT161331+0542715	16:13:31.5	+54:27:15.3	0.55	697	251.08	342.35	342.35	41.5	
GMRT161332+0540351	16:13:32.5	+54:03:52.1	0.79	105	3.24	9.13	9.13	13.1	
GMRT161332+0544356	16:13:32.0	+54:43:56.2	0.51	63	0.72	1.05	0.72	U	
GMRT161332+0550601	16:13:32.2	+55:06:04.9	0.67	83	1.05	1.21	1.05	U	
GMRT161332+0550831	16:13:32.4	+55:08:33.2	0.70	85	2.03	2.54	2.54	3.4	
GMRT161333+0544633	16:13:33.2	+54:46:33.2	0.52	66	0.41	0.32	0.41	U	
GMRT161333+0544827	16:13:33.1	+54:48:35.7	0.53	72	0.56	0.38	0.56	U	
GMRT161334+0541534	16:13:34.4	+54:15:36.0	0.66	104	0.67	0.50	0.67	U	
GMRT161334+0545042	16:13:35.0	+54:50:47.8	0.55	64	0.54	1.26	0.54	U	
GMRT161335+0541107	16:13:35.7	+54:11:15.7	0.71	107	3.81	18.08	18.08	37.4	
GMRT161336+0541256	16:13:36.2	+54:12:59.6	0.69	89	6.17	9.02	9.02	18.8	
GMRT161336+0543007	16:13:36.2	+54:30:12.7	0.55	148	2.38	3.49	2.38	U	
GMRT161336+0544243	16:13:36.8	+54:42:51.8	0.52	68	0.42	0.36	0.42	U	
GMRT161337+0540656	16:13:37.0	+54:06:63.8	0.76	88	0.68	1.21	1.21	15.1	
GMRT161338+0541453	16:13:38.3	+54:14:59.0	0.67	105	1.41	5.09	5.09	28.3	
GMRT161339+0535801	16:13:39.6	+53:58:09.5	0.88	113	1.00	1.55	1.00	U	
GMRT161339+0544755	16:13:39.4	+54:47:58.4	0.54	68	0.69	0.72	0.69	U	
GMRT161340+0550236	16:13:40.3	+55:02:36.8	0.65	75	0.47	0.31	0.47	U	
GMRT161344+0541036	16:13:44.3	+54:10:45.0	0.73	92	0.88	0.99	0.88	U	
GMRT161344+0544116	16:13:44.6	+54:41:20.8	0.54	67	2.19	1.99	2.19	U	
GMRT161347+0541400	16:13:47.6	+54:14:08.8	0.70	127	23.10	71.08	71.08	45.6	
GMRT161347+0544732	16:13:47.1	+54:47:40.8	0.56	63	0.38	0.22	0.38	U	
GMRT161349+0550140	16:13:49.5	+55:01:42.6	0.66	86	2.04	6.41	6.41	15.1	
GMRT161351+0544037	16:13:51.8	+54:40:43.3	0.56	68	0.48	0.49	0.48	U	
GMRT161352+0540653	16:13:52.9	+54:06:53.7	0.79	96	4.95	6.53	6.53	4.3	
GMRT161353+0542721	16:13:53.0	+54:27:21.3	0.60	182	1.60	1.47	1.60	U	
GMRT161353+0544737	16:13:53.4	+54:47:43.6	0.58	74	0.58	0.80	0.58	U	
GMRT161353+0550150	16:13:54.0	+55:01:59.6	0.67	105	0.96	1.66	1.66	22.0	
GMRT161354+0542204	16:13:55.0	+54:22:11.2	0.64	100	0.70	0.75	0.70	U	
GMRT161355+0543606	16:13:55.0	+54:36:14.1	0.57	69	0.78	0.75	0.78	U	
GMRT161355+0545746	16:13:55.6	+54:57:50.4	0.64	74	1.72	2.32	2.32	9.4	
GMRT161356+0542101	16:13:56.5	+54:21:06.5	0.65	92	0.76	0.78	0.76	U	
GMRT161356+0543939	16:13:56.8	+54:39:43.4	0.57	67	1.12	1.23	1.12	U	
GMRT161357+0535821	16:13:57.1	+53:58:26.1	0.90	128	1.88	1.95	1.88	U	
GMRT161357+0541045	16:13:57.1	+54:10:54.0	0.75	88	0.72	0.63	0.72	U	
GMRT161358+0545924	16:13:58.5	+54:59:32.3	0.66	76	0.74	0.72	0.74	U	
GMRT161358+0550219	16:13:58.3	+55:02:28.3	0.68	94	2.53	8.06	8.06	15.0	

Table 3 – *continued*

Source name	RA	DEC	Dist	σ_{rms}	S_{peak}	$S_{total\ 3\sigma}$	S_{total}	Size	Notes
(1)	hh:mm:ss.s	dd:mm:ss.s	deg	$\mu\text{Jy b}^{-1}$	mJy b^{-1}	mJy	mJy	"	(10)
GMRT161359+0550746	16:13:59.5	+55:07:46.2	0.74	88	1.37	1.37	1.37	U	
GMRT161400+0535711	16:14:00.6	+53:57:15.6	0.92	172	19.41	47.11	47.11	36.3	
GMRT161401+0553111	16:14:01.6	+55:31:16.4	1.03	225	2.67	2.28	2.67	U	
GMRT161402+0544417	16:14:02.6	+54:44:23.6	0.59	133	30.44	141.48	141.48	48.6	
GMRT161403+0540157	16:14:03.8	+54:01:65.6	0.87	122	0.75	0.70	0.75	U	
GMRT161403+0551139	16:14:03.6	+55:11:41.1	0.79	118	0.81	0.90	0.81	U	
GMRT161404+0552635	16:14:04.9	+55:26:36.2	0.97	186	4.79	5.28	4.79	U	
GMRT161405+0544727	16:14:06.0	+54:47:36.6	0.60	74	0.48	0.46	0.48	U	
GMRT161405+0551103	16:14:05.8	+55:11:10.8	0.78	120	1.77	1.95	1.77	U	
GMRT161405+0552315	16:14:05.4	+55:23:17.9	0.93	179	11.05	12.88	12.88	5.0	
GMRT161406+0542013	16:14:06.3	+54:20:19.7	0.68	90	1.05	1.03	1.05	U	
GMRT161407+0541914	16:14:07.4	+54:19:16.4	0.69	96	1.12	1.33	1.12	U	
GMRT161407+0551518	16:14:07.7	+55:15:18.8	0.84	120	1.52	1.64	1.52	U	
GMRT161408+0545538	16:14:08.3	+54:55:43.7	0.65	71	1.57	1.50	1.57	U	
GMRT161409+0540949	16:14:09.4	+54:09:53.0	0.79	93	1.18	1.04	1.18	U	
GMRT161410+0540114	16:14:10.5	+54:01:20.4	0.89	123	0.90	0.82	0.90	U	
GMRT161410+0540136	16:14:11.0	+54:01:37.5	0.88	122	1.29	1.23	1.29	U	
GMRT161412+0540359	16:14:12.1	+54:03:65.8	0.86	171	25.98	68.96	68.96	51.8	
GMRT161412+0540619	16:14:12.6	+54:06:20.1	0.83	108	0.81	0.68	0.81	U	
GMRT161412+0540940	16:14:12.0	+54:09:41.9	0.79	91	0.94	1.10	0.94	U	
GMRT161412+0542155	16:14:12.7	+54:21:55.9	0.68	93	0.72	0.75	0.72	U	
GMRT161412+0544016	16:14:12.6	+54:40:21.0	0.61	73	0.49	0.71	0.49	U	
GMRT161412+0550339	16:14:12.2	+55:03:46.4	0.72	86	0.64	0.79	0.64	U	
GMRT161413+0544242	16:14:13.1	+54:42:44.0	0.61	121	7.84	24.05	24.05	31.8	
GMRT161413+0545608	16:14:13.3	+54:56:15.3	0.67	70	0.80	0.79	0.80	U	
GMRT161413+0550818	16:14:13.4	+55:08:21.1	0.77	99	0.95	0.64	0.95	U	
GMRT161414+0544354	16:14:14.2	+54:43:56.4	0.62	154	10.67	13.96	13.96	14.6	
GMRT161415+0543515	16:14:15.5	+54:35:24.2	0.62	82	0.51	0.72	0.51	U	
GMRT161415+0544325	16:14:15.9	+54:43:27.9	0.62	144	28.99	39.85	39.85	37.4	
GMRT161416+0535845	16:14:16.5	+53:58:50.7	0.93	124	0.92	0.72	0.92	U	
GMRT161416+0550032	16:14:16.0	+55:00:33.5	0.70	77	0.62	0.69	0.62	U	
GMRT161417+0550405	16:14:17.7	+55:04:09.1	0.74	87	3.70	4.31	4.31	3.8	
GMRT161417+0550759	16:14:17.2	+55:07:60.7	0.77	95	0.96	1.01	0.96	U	
GMRT161418+0550701	16:14:18.4	+55:07:02.2	0.77	89	1.56	1.68	1.56	U	
GMRT161420+0542148	16:14:20.0	+54:21:53.0	0.70	95	1.08	0.93	1.08	U	
GMRT161420+0543356	16:14:20.9	+54:33:58.7	0.64	84	1.74	1.88	1.74	U	
GMRT161421+0541738	16:14:21.5	+54:17:41.5	0.73	106	15.99	18.54	18.54	15.1	
GMRT161422+0540144	16:14:22.7	+54:01:52.6	0.90	116	2.18	2.82	2.82	3.0	
GMRT161423+0540349	16:14:24.0	+54:03:50.0	0.88	136	1.06	0.88	1.06	U	
GMRT161423+0545402	16:14:23.8	+54:54:09.2	0.68	78	0.82	0.92	0.82	U	
GMRT161424+0544314	16:14:24.4	+54:43:18.3	0.64	101	3.23	6.06	6.06	9.1	
GMRT161424+0545441	16:14:24.2	+54:54:43.8	0.68	82	0.91	0.93	0.91	U	
GMRT161425+0535557	16:14:25.6	+53:55:61.6	0.98	147	1.14	1.30	1.14	U	
GMRT161425+0543637	16:14:25.7	+54:36:43.4	0.64	79	1.53	1.55	1.53	U	
GMRT161425+0543812	16:14:25.7	+54:38:19.1	0.64	85	0.60	0.68	0.60	U	
GMRT161425+0545906	16:14:25.3	+54:59:13.6	0.71	76	0.65	0.57	0.65	U	
GMRT161425+0550345	16:14:25.3	+55:03:47.2	0.75	89	0.87	0.85	0.87	U	
GMRT161429+0545802	16:14:29.3	+54:58:10.5	0.71	78	0.59	0.54	0.59	U	
GMRT161429+0545853	16:14:29.2	+54:58:54.2	0.72	76	1.39	1.26	1.39	U	
GMRT161430+0542535	16:14:30.8	+54:25:41.9	0.70	107	1.60	2.75	2.75	5.6	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT161432+0542600	16:14:32.8	+54:26:06.0	0.70	110	1.12	1.28	1.12	U	
GMRT161432+0544052	16:14:32.9	+54:40:54.8	0.66	83	2.44	2.72	2.72	3.1	
GMRT161432+0544852	16:14:32.7	+54:48:61.5	0.67	77	0.73	0.65	0.73	U	
GMRT161432+0550507	16:14:32.6	+55:05:12.0	0.78	90	0.87	0.82	0.87	U	
GMRT161433+0541421	16:14:33.9	+54:14:28.8	0.79	104	3.81	12.91	12.91	23.3	
GMRT161433+0545844	16:14:33.0	+54:58:45.5	0.73	84	0.56	0.48	0.56	U	
GMRT161434+0543824	16:14:34.7	+54:38:24.2	0.66	86	1.10	1.62	1.10	U	
GMRT161435+0541227	16:14:35.1	+54:12:29.6	0.81	94	1.04	1.10	1.04	U	
GMRT161435+0541932	16:14:35.7	+54:19:33.6	0.75	94	5.14	5.46	5.46	4.1	
GMRT161435+0552515	16:14:35.3	+55:25:19.9	1.00	185	1.94	1.75	1.94	U	
GMRT161436+0541332	16:14:36.5	+54:13:32.3	0.80	103	0.63	0.56	0.63	U	
GMRT161437+0541631	16:14:37.3	+54:16:37.4	0.78	93	1.62	2.31	2.31	8.3	
GMRT161437+0550516	16:14:37.8	+55:05:20.9	0.79	93	1.04	0.96	1.04	U	
GMRT161438+0542245	16:14:38.8	+54:22:48.2	0.73	107	17.48	21.91	21.91	18.3	
GMRT161438+0543622	16:14:38.9	+54:36:25.3	0.68	80	0.82	0.93	0.82	U	
GMRT161439+0535411	16:14:39.5	+53:54:17.1	1.02	173	1.22	1.33	1.22	U	
GMRT161441+0550205	16:14:41.3	+55:02:10.6	0.77	92	1.25	1.32	1.25	U	
GMRT161442+0542614	16:14:42.3	+54:26:23.1	0.72	102	0.73	1.32	0.73	U	
GMRT161444+0544429	16:14:44.1	+54:44:36.6	0.69	75	0.61	0.51	0.61	U	
GMRT161446+0543124	16:14:46.9	+54:31:33.4	0.71	107	0.77	0.57	0.77	U	
GMRT161446+0552955	16:14:46.9	+55:29:56.4	1.08	230	4.43	4.38	4.43	U	
GMRT161453+0542822	16:14:53.1	+54:28:29.9	0.73	105	2.70	3.84	3.84	12.9	
GMRT161453+0543949	16:14:53.3	+54:39:52.1	0.71	87	1.02	1.35	1.02	U	
GMRT161453+0544331	16:14:53.9	+54:43:31.7	0.71	80	0.67	0.74	0.67	U	
GMRT161454+0534958	16:14:54.0	+53:49:60.9	1.10	206	1.60	1.15	1.60	U	
GMRT161454+0542721	16:14:54.5	+54:27:24.8	0.74	105	0.78	0.59	0.78	U	
GMRT161455+0541414	16:14:55.8	+54:14:15.2	0.84	105	0.65	0.87	0.65	U	
GMRT161457+0543526	16:14:57.3	+54:35:29.5	0.72	88	2.05	2.32	2.05	U	
GMRT161458+0540422	16:14:58.3	+54:04:23.9	0.94	130	1.38	1.18	1.38	U	
GMRT161458+0540850	16:14:58.2	+54:08:51.5	0.89	121	1.32	1.18	1.32	U	
GMRT161459+0535504	16:14:59.3	+53:55:12.5	1.04	177	2.38	2.64	2.38	U	
GMRT161459+0541013	16:14:59.1	+54:10:22.9	0.88	103	1.69	1.53	1.69	U	
GMRT161459+0550223	16:14:59.2	+55:02:24.2	0.81	92	1.71	1.78	1.71	U	
GMRT161459+0550831	16:14:59.7	+55:08:32.8	0.86	112	0.87	0.78	0.87	U	
GMRT161500+0545604	16:15:00.7	+54:56:09.7	0.77	87	1.72	1.74	1.72	U	
GMRT161501+0544439	16:15:01.8	+54:44:43.5	0.73	78	0.50	0.29	0.50	U	
GMRT161501+0545137	16:15:02.0	+54:51:40.6	0.75	86	1.77	1.72	1.77	U	
GMRT161502+0541652	16:15:02.3	+54:16:56.4	0.83	97	1.27	0.92	1.27	U	
GMRT161504+0545152	16:15:04.4	+54:51:59.5	0.76	90	0.57	0.52	0.57	U	
GMRT161506+0543844	16:15:07.0	+54:38:52.2	0.74	84	0.70	0.74	0.70	U	
GMRT161507+0545315	16:15:07.6	+54:53:19.8	0.77	85	0.77	0.84	0.77	U	
GMRT161508+0541831	16:15:08.3	+54:18:39.7	0.83	104	1.65	4.37	4.37	34.6	
GMRT161511+0543515	16:15:11.6	+54:35:17.1	0.76	86	1.32	1.24	1.32	U	
GMRT161514+0545933	16:15:14.9	+54:59:35.1	0.82	101	3.69	4.48	4.48	6.4	
GMRT161515+0544127	16:15:15.3	+54:41:35.7	0.76	90	0.80	0.84	0.80	U	
GMRT161517+0543620	16:15:17.6	+54:36:25.0	0.77	96	0.68	0.40	0.68	U	
GMRT161517+0550427	16:15:17.8	+55:04:32.5	0.86	103	5.69	6.49	6.49	9.5	
GMRT161519+0542916	16:15:20.0	+54:29:23.4	0.79	98	1.02	1.08	1.02	U	
GMRT161519+0543300	16:15:19.5	+54:33:02.0	0.78	91	0.74	0.79	0.74	U	
GMRT161519+0544839	16:15:19.3	+54:48:41.0	0.78	84	3.15	3.56	3.15	U	

Table 3 – continued

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT161521+0541812	16:15:21.9	+54:18:20.5	0.86	107	4.13	4.84	4.84	3.5	
GMRT161521+0543145	16:15:22.0	+54:31:46.1	0.79	98	2.45	2.77	2.45	U	
GMRT161521+0543515	16:15:21.9	+54:35:18.2	0.78	94	5.06	5.48	5.48	4.3	
GMRT161521+0552038	16:15:21.9	+55:20:45.4	1.02	180	3.53	4.07	3.53	U	
GMRT161522+0545822	16:15:22.5	+54:58:24.7	0.83	109	5.27	5.75	5.75	3.2	
GMRT161524+0542004	16:15:24.5	+54:20:05.5	0.85	103	1.42	1.50	1.42	U	
GMRT161524+0542348	16:15:24.7	+54:23:52.5	0.83	115	7.13	8.26	8.26	10.2	
GMRT161525+0535851	16:15:25.9	+53:58:60.8	1.05	214	1.58	1.69	1.58	U	
GMRT161525+0540033	16:15:25.0	+54:00:42.8	1.03	186	2.51	5.83	5.83	18.1	
GMRT161525+0541432	16:15:25.1	+54:14:38.9	0.89	120	1.62	1.88	1.62	U	
GMRT161525+0544352	16:15:25.3	+54:43:59.2	0.79	97	0.80	0.84	0.80	U	
GMRT161526+0541358	16:15:26.4	+54:13:64.9	0.90	122	2.04	1.93	2.04	U	
GMRT161526+0544215	16:15:26.1	+54:42:16.4	0.79	98	1.47	2.43	2.43	13.1	
GMRT161527+0542710	16:15:27.8	+54:27:17.5	0.82	113	12.07	20.31	20.31	13.4	
GMRT161527+0543410	16:15:27.8	+54:34:19.3	0.80	98	1.88	2.90	1.88	U	
GMRT161527+0544549	16:15:27.3	+54:45:52.7	0.79	94	0.99	1.21	0.99	U	
GMRT161527+0545632	16:15:27.5	+54:56:37.0	0.83	117	16.38	19.05	19.05	19.6	
GMRT161528+0541314	16:15:28.6	+54:13:22.6	0.91	122	1.57	1.87	1.57	U	
GMRT161529+0545457	16:15:29.2	+54:54:58.5	0.83	107	0.87	0.90	0.87	U	
GMRT161530+0541037	16:15:30.6	+54:10:42.0	0.94	125	1.24	1.37	1.24	U	
GMRT161530+0545229	16:15:30.9	+54:52:30.9	0.82	118	6.95	55.43	55.43	31.6	
GMRT161531+0541003	16:15:31.9	+54:10:06.8	0.95	132	1.59	1.81	1.59	U	
GMRT161531+0544524	16:15:31.5	+54:45:31.1	0.80	100	0.82	0.71	0.82	U	
GMRT161537+0544731	16:15:37.2	+54:47:39.9	0.82	98	0.81	0.74	0.81	U	
GMRT161538+0552013	16:15:39.0	+55:20:18.8	1.05	220	8.21	16.45	16.45	24.6	
GMRT161540+0541313	16:15:40.7	+54:13:22.9	0.94	128	1.49	1.72	1.49	U	
GMRT161540+0544816	16:15:40.3	+54:48:22.2	0.83	104	0.76	0.60	0.76	U	
GMRT161544+0543331	16:15:44.2	+54:33:32.8	0.84	105	0.70	0.61	0.70	U	
GMRT161545+0545342	16:15:45.2	+54:53:44.8	0.86	121	0.84	0.87	0.84	U	
GMRT161546+0550326	16:15:46.5	+55:03:35.7	0.92	132	0.97	0.97	0.97	U	
GMRT161547+0543117	16:15:47.5	+54:31:19.1	0.85	107	0.68	0.78	0.68	U	
GMRT161547+0543152	16:15:47.3	+54:31:57.2	0.85	113	1.57	1.49	1.57	U	
GMRT161549+0541612	16:15:49.2	+54:16:20.4	0.93	135	0.99	0.92	0.99	U	
GMRT161549+0543754	16:15:49.7	+54:37:58.6	0.84	107	1.87	1.92	1.87	U	
GMRT161549+0551644	16:15:49.8	+55:16:51.3	1.04	292	48.54	121.65	121.65	34.2	
GMRT161551+0541531	16:15:51.8	+54:15:40.3	0.94	136	1.71	1.68	1.71	U	
GMRT161551+0550719	16:15:51.3	+55:07:26.6	0.96	130	1.07	1.07	1.07	U	
GMRT161552+0550234	16:15:52.2	+55:02:39.8	0.92	123	0.92	0.71	0.92	U	
GMRT161553+0541325	16:15:53.8	+54:13:29.9	0.96	133	1.61	1.81	1.61	U	
GMRT161553+0550328	16:15:53.5	+55:03:36.4	0.93	134	1.12	1.25	1.12	U	
GMRT161557+0541502	16:15:57.7	+54:15:09.2	0.96	146	0.96	0.72	0.96	U	
GMRT161557+0543305	16:15:57.1	+54:33:12.9	0.87	104	0.83	1.17	0.83	U	
GMRT161603+0540429	16:16:03.9	+54:04:30.6	1.06	230	16.39	22.38	22.38	13.6	
GMRT161604+0544742	16:16:05.0	+54:47:46.2	0.89	113	8.18	11.37	11.37	20.9	
GMRT161607+0543232	16:16:07.9	+54:32:35.2	0.90	114	1.72	1.84	1.72	U	
GMRT161607+0550512	16:16:07.4	+55:05:20.4	0.98	148	5.32	9.82	9.82	15.7	
GMRT161609+0545927	16:16:09.9	+54:59:33.5	0.95	141	1.85	2.75	1.85	U	
GMRT161610+0543531	16:16:10.8	+54:35:36.7	0.90	110	0.70	1.03	0.70	U	
GMRT161610+0544240	16:16:10.7	+54:42:48.3	0.89	117	0.85	0.76	0.85	U	
GMRT161611+0540313	16:16:11.4	+54:03:20.1	1.09	278	4.75	4.68	4.75	U	

Table 3 – *continued*

Source name (1)	RA hh:mm:ss.s (2)	DEC dd:mm:ss.s (3)	Dist deg (4)	σ_{rms} $\mu\text{Jy b}^{-1}$ (5)	S_{peak} mJy b^{-1} (6)	$S_{total\ 3\sigma}$ mJy (7)	S_{total} mJy (8)	Size " (9)	Notes (10)
GMRT161611+0551448	16:16:11.6	+55:14:51.6	1.06	186	2.70	3.22	2.70	U	
GMRT161615+0543719	16:16:15.6	+54:37:25.7	0.91	114	2.31	2.67	2.31	U	
GMRT161616+0541720	16:16:16.4	+54:17:21.3	0.99	182	16.31	41.92	41.92	28.6	
GMRT161616+0551006	16:16:17.0	+55:10:06.1	1.03	168	2.93	3.16	2.93	U	
GMRT161623+0544526	16:16:23.4	+54:45:35.1	0.93	125	1.33	1.75	1.33	U	
GMRT161623+0545735	16:16:23.5	+54:57:40.2	0.97	232	54.77	72.39	72.39	36.1	
GMRT161624+0545556	16:16:25.0	+54:55:61.2	0.96	181	9.82	17.88	17.88	26.3	
GMRT161632+0551158	16:16:32.5	+55:11:58.0	1.08	200	3.32	3.68	3.32	U	
GMRT161633+0543528	16:16:33.9	+54:35:30.2	0.95	130	0.95	0.60	0.95	U	
GMRT161639+0544654	16:16:39.0	+54:46:57.7	0.97	134	1.22	1.06	1.22	U	
GMRT161642+0545822	16:16:42.4	+54:58:30.4	1.01	170	1.42	1.25	1.42	U	
GMRT161644+0544154	16:16:44.2	+54:41:62.7	0.97	133	1.02	1.58	1.02	U	
GMRT161644+0550903	16:16:44.5	+55:09:10.2	1.08	191	1.28	1.44	1.28	U	
GMRT161645+0550228	16:16:46.0	+55:02:32.7	1.04	194	7.60	16.22	16.22	25.7	
GMRT161646+0542551	16:16:46.2	+54:25:53.1	1.01	148	1.35	1.10	1.35	U	
GMRT161646+0544607	16:16:46.4	+54:46:14.4	0.98	142	1.30	1.27	1.30	U	
GMRT161648+0542302	16:16:48.5	+54:23:10.1	1.03	163	2.77	4.76	4.76	16.9	
GMRT161648+0544555	16:16:48.1	+54:45:63.1	0.99	144	1.50	2.12	1.50	U	
GMRT161648+0545538	16:16:48.0	+54:55:40.5	1.01	160	2.06	2.65	2.06	U	
GMRT161649+0544918	16:16:49.4	+54:49:25.4	1.00	155	4.45	5.97	4.45	U	
GMRT161650+0542515	16:16:50.7	+54:25:24.2	1.02	161	5.67	6.10	5.67	U	
GMRT161655+0544112	16:16:56.0	+54:41:14.6	1.00	156	1.71	1.90	1.71	U	
GMRT161655+0544409	16:16:55.7	+54:44:18.6	1.00	144	1.00	0.95	1.00	U	
GMRT161655+0550057	16:16:55.8	+55:00:65.9	1.06	178	1.09	0.79	1.09	U	
GMRT161656+0545303	16:16:56.1	+54:53:12.8	1.02	154	0.98	0.71	0.98	U	
GMRT161656+0550327	16:16:56.6	+55:03:30.2	1.07	189	1.18	1.12	1.18	U	
GMRT161701+0545850	16:17:01.8	+54:58:57.2	1.06	177	1.25	1.41	1.25	U	
GMRT161704+0545020	16:17:04.6	+54:50:23.7	1.04	168	2.93	6.65	6.65	14.7	
GMRT161704+0545203	16:17:04.2	+54:52:07.2	1.04	172	1.72	1.54	1.72	U	
GMRT161704+0545548	16:17:04.5	+54:55:52.3	1.05	180	1.13	1.73	1.13	U	
GMRT161709+0550102	16:17:09.4	+55:01:06.5	1.09	198	1.71	1.30	1.71	U	
GMRT161712+0543223	16:17:12.3	+54:32:23.8	1.05	184	1.34	2.84	1.34	U	
GMRT161713+0543159	16:17:13.5	+54:31:60.9	1.05	182	5.25	10.41	10.41	11.7	
GMRT161714+0543936	16:17:14.7	+54:39:43.9	1.05	170	4.19	4.86	4.19	U	
GMRT161714+0545820	16:17:14.8	+54:58:28.6	1.09	194	1.25	1.36	1.25	U	
GMRT161721+0543317	16:17:21.5	+54:33:17.6	1.07	184	1.43	1.47	1.43	U	